SR 8010DC

SERVICE MANUAL SR8000

marantz

model SR8000

Stereophonic Receiver

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Chatsworth, California 91311
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Staines
Middlesex
England

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D-6072 Dreieich 1
West Germany

All of the above locations are fully equipped to take care of your total service needs. Because various countries have differing configuration requirements, it is necessary that you contact the service facility in your particular country. In the event that there is no service location listed for your country, please contact the nearest facility for the necessary assistance.

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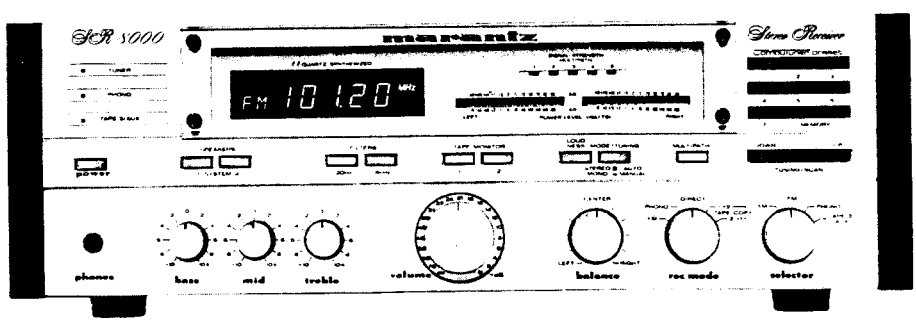
MODEL SR-8000 STEREPHONIC RECEIVER



INTRODUCTION

This service manual was prepared for use by Authorized Warranty Stations and contains service information for Marantz Model SR-8000 Stereophonic Receiver.

Servicing information and voltage data included in this manual are intended for use by the knowledgeable and experienced technician only. All instructions should be read carefully. No attempt should be made to proceed without a good understanding of the operation of the receiver.

The parts list furnishes information by which replacement parts may be ordered from the Marantz Company. A simple description is included for parts which can usually be obtained through local suppliers.

1. P.W. BOARDS

1. Tuner/Phono . . . . . mounted on P.W. Board P100
2. Power Amp . . . . . mounted on P.W. Board P700
3. Power Supply . . . . . mounted on P.W. Board P800
4. Sub Power Supply . . mounted on P.W. Board P860
5. Display Unit . . . . . mounted on P.W. Board P900
6. Noise Amp . . . . . mounted on P.W. Board PB00
7. Synthesizer . . . . . mounted on P.W. Board PC00
8. Tone Amp . . . . . mounted on P.W. Board PE00
9. Volume/Balance . . . . mounted on P.W. Board PG00
10. Power Level LED . . . mounted on P.W. Board PK00
11. Voltage Amp . . . . . mounted on P.W. Board PN00
12. Tape/Filter/Loudness . . . . . mounted on P.W. Board PS00
13. Multipath . . . . . mounted on P.W. Board PS50
14. Speaker Switch . . . . mounted on P.W. Board PT00
15. Rec. Mode Switch . . . mounted on P.W. Board PT50
16. Tuning Key . . . . . mounted on P.W. Board PU00
17. Scan Step . . . . . mounted on P.W. Board PU50
18. Tape 2 Terminal . . . . mounted on P.W. Board PV00
19. Remote Cont. . . . . mounted on P.W. Board PV50
20. Phone Jack . . . . . mounted on P.W. Board PW00
21. Function Indicator . . mounted on P.W. Board PY00

2. TEST EQUIPMENT REQUIRED FOR SERVICING

This table lists the test equipment required for servicing the Model SR-8000 Receiver.

Item	Manufacturer and Model No.	Use
AM Signal Generator		Signal source for AM alignment
Test Loop		Use with AM Signal Generator
FM Signal Generator MPX Signal Generator	Sound Technology Model 1000A	Signal source for FM alignment Stereo separation alignment and trouble shooting
Distortion Analyzer Audio Oscillator AC VTVM	Sound Technology Model 1700A	Distortion measurements Sinewave and squarewave signal source Voltage measurements (AC)
Oscilloscope	Tektronix Model T932 Philips Model 3232	Waveform analysis and trouble shooting and ASO alignment
Frequency Counter	Fluke Model 1900A	MPX Oscillator adjustment (VCO)
Circuit Tester		Trouble shooting
DC VTVM	Fluke Model 8000 "Digital" Simpson Model 313, Triplet Model 801	Voltage measurements (DC)
AC Wattmeter	Simpson Model 1379	Monitors primary power to amplifier
AC Ammeter	Commercial Grade (1-10A)	Monitors amplifier output under short circuit condition
Line Voltmeter	Simpson Model 1359	Monitors potential of primary power to amplifier
Variable Autotransformer	Superior Electronic Co., Powerstat Model 116B–10A	Adjusts level of primary power to amplifier
Shorting Plug	Use phono plug with 600-ohm across center pin and shell	Shorts amplifier input to eliminate noise pickup
Output Load (8 ohms, ± 0.5%, 100W)	Commercial Grade	Provides 8-ohm load for amplifier output termination
Output Load (4 ohms, ± 0.5%, 100W)	Commercial Grade	Provides 4-ohm load for amplifier output termination

3. FREQUENCY SYNTHESIZER RADIO TUNING SYSTEM

3.1 Construction of Synthesizer System

This frequency synthesizer is composed of a microcomputer (MN 1400SJ), PLL LSI (MN6142), CMOS RAM (MN1203), prescaler (uPB551C), lowpass filter, crystals and fluorescent indicating tubes, as shown in Fig. 1.

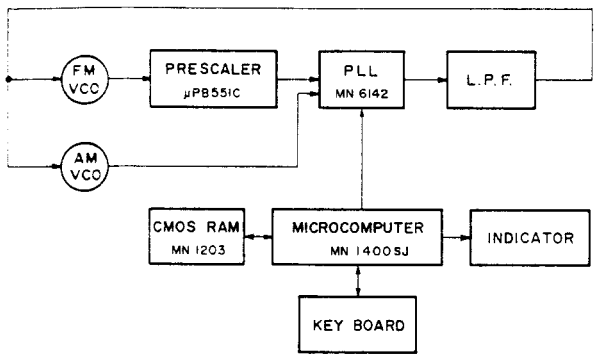


Figure 1. Block Diagram of Synthesizer

3.2 Microcomputer MN1400SJ

[1] Terminal connections

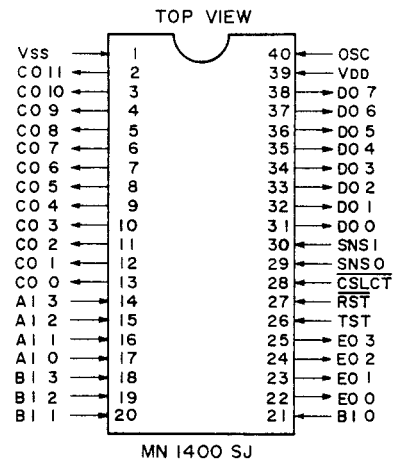


Figure 2

[2] Block diagram

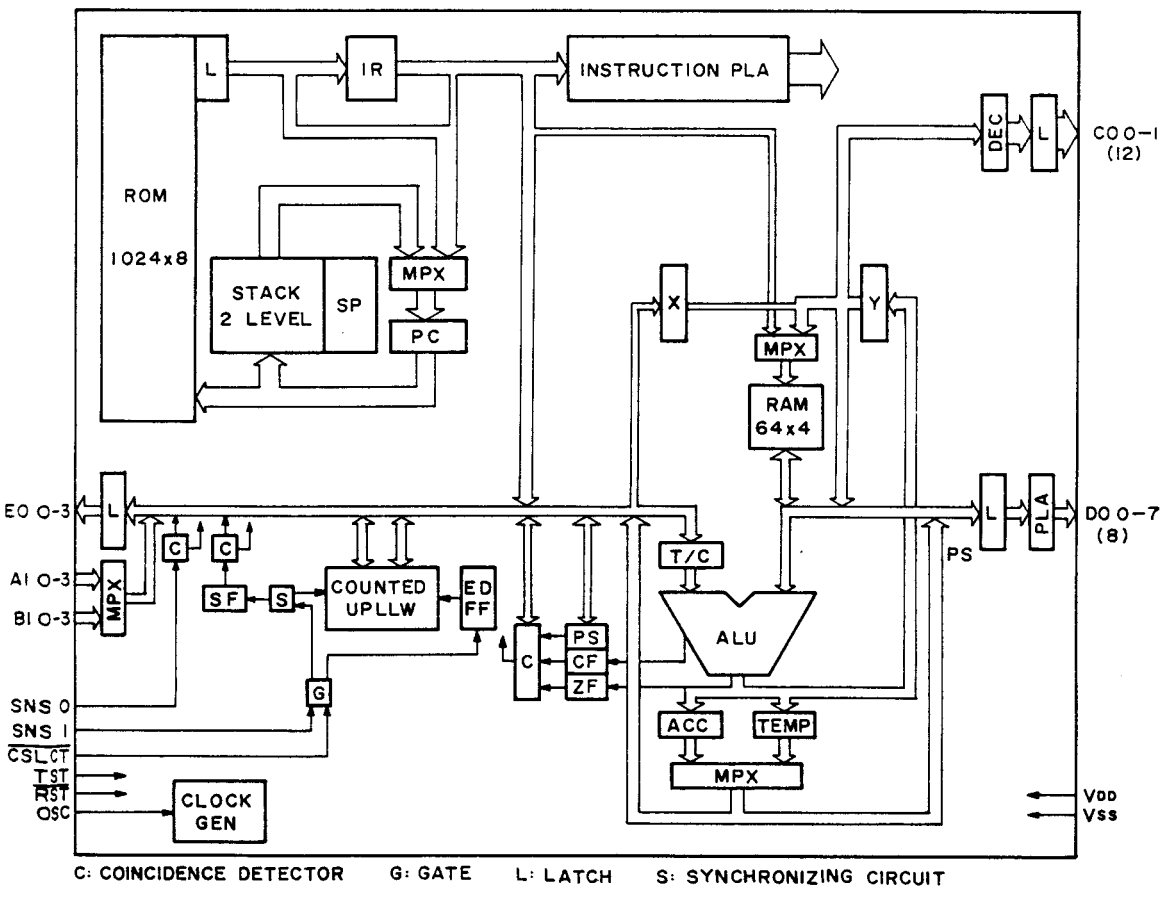


Figure 3

[3] Specifications

Type No.	Function	Maximum Ratings (Ta = 25°C)			Electrical Characteristics (Ta = 25°C)					
		Item	Rating	Unit	Item	Condition	Min.	Typ.	Max.	Unit
MN1400	N-Channel LOCOS E/D MOS 4-Bit · 1 Chip Microcomputers	V_{DD}	−0.3~+10	V	I_{DD}	V_{DD} = 5V Without load		20	40	mA
		V_I	−0.3~+10	V						
		V_O	−0.3~+10	V	P_T	V_{DD} = 5V Without load		100	200	mA
		V_{OSC}	−0.3~+10	V						
		I_{OH} (PK) (C,D.E Port)	−0.5	mA	V_{IH1}	AI0~AI3, BI0~BI3 SNS0, SNS1 V_{DD} = 5V	2.4		V_{DD}	V
		I_{OL} (PK) (C,D,E. Port)	8	mA	V_{IL1}		V_{SS}		0.8	
		I_{OH} (aV) (C,D,E. Port)	−0.25	mA	V_{IH2}	$\overline{RST}$, $\overline{CSLCT}$, RDY V_{DD} = 5V	2.4		V_{DD}	V
		I_{OL} (aV) (C,D,E. Port)	4	mA	V_{IL2}		V_{SS}		0.8	
		P_T	500	mW	I_{12}	V_I = 0.8V	−5	−15	−30	μA
		Topr	−30~+70	°C	V_{OH1}	CO0~CO11, DO0~DO7, SYNC, EO0~EO3, DOPS, RA0~RA10 V_{DD} = 5V I_{OH} = −30μA	4			V
		Tstg	−55~+125	°C	V_{OH2}	V_{DD} = 5V I_{OH} = −100μA	2.6			
		Operating Condition (Ta = 25°C)			V_{OL}	V_{DD} = 5V I_{OL} = 2mA			0.5	
		Item	min.typ.max.	Unit	f_{OSC}	V_{DD} =5V, R_{OSC} =18kΩ, C_{OSC} =100pF	200	300	450	kHz
		V_{DD}	4.5,5,6	V	C_I	V_{DD} = 5V, V_I = 2V		5		pF
					C_O	V_{DD} = 5V, V_I = 2V		7		

[4] Functions of terminals

No.	Symbol	Item	No.	Symbol	Item
1	V_{SS}	GND	40	OSC	360 kHz In
2	CO11		39	V_{DD}	5V
3	CO10	Muting Output (H)	38	DO7	
4	CO9	Band: AM/FM Select Signal Output	37	DO6	Segment output: c
5	CO8	Load signal output to PLL latch circuit	36	DO5	Segment output: d
6	CO7	Memory chip enabling output	35	DO4	Segment output: a
7	CO6		34	DO3	Segment output: f Frequency-division ratio preset output
8	CO5	Digit output: AM, FM, ME , FM Stereo	33	DO2	Segment output: e Frequency-division ratio preset output
9	CO4	5th digit	32	DO1	Segment output: g Frequency-division ratio preset output
10	CO3	4th digit	31	DO0	Segment output: b Frequency-division ratio preset output
11	CO2	3rd digit	30	SNS1	5V
12	CO1	2nd digit	29	SNS0	
13	CO0	1st digit	28	$\overline{CSLCT}$	GND
14	AI3	Key mode switch input	27	$\overline{RST}$	Reset
15	AI2	Key mode switch input	26	TST	
16	AI1	Key mode switch input	25	EO3	Key mode switch output
17	AI0	Key mode switch input	24	EO2	Key mode switch output
18	BI3	5V	23	EO1	Key mode switch output
19	BI2		22	EO0	Memory PLL address latch select output
20	BI1		21	BI0	Squelch input (L)

3.3 PLL LSI MN6142

[1] Terminal connections

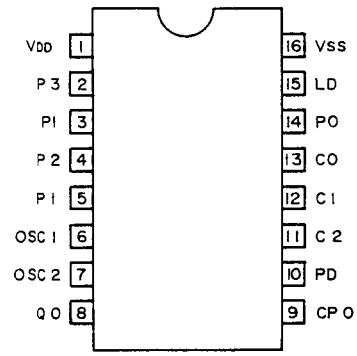


Figure 4

[2] Specifications

Absolute maximum ratings				
Item	Symbol	Rating	Unit	Remarks
Power supply voltage	V_{DD}	-0.3 – +10	V	V_{SS} = 0V
Power consumption	P_T (MAX)	50	mW	
Input voltage	V_{IN}	-0.3 – V_{DD} + 0.3	V	V_{SS} = 0V
Output voltage	V_{OUT}	-0.3 – V_{DD} + 0.3	V	V_{SS} = 0V
Operating temperature	Topr	-20 – + 70	°C	
Storage temperature	Tstg	-55 – +100	°C	

[3] Block diagram

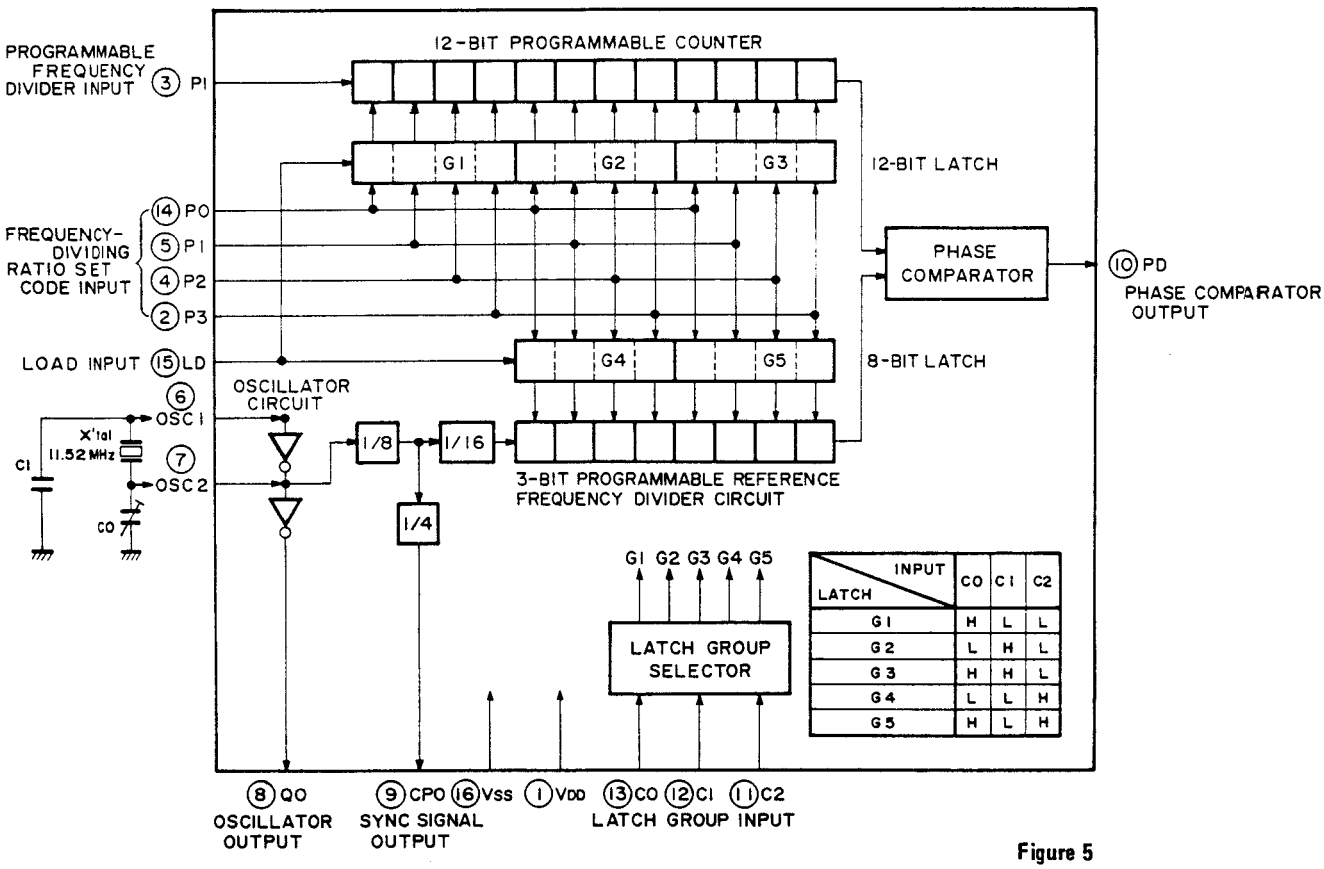


Figure 5

[4] Functions of terminals

No.	Symbol	Descriptions
1	V_{DD}	Power supply +5V
2	P_3	Frequency dividing ratio preset code input
3	P_1	Programmable frequency divider input
4	P_2	Frequency dividing ratio preset code input
5	P_1	Frequency dividing ratio preset code input
6	OSC1	Oscillator
7	OSC2	Oscillator
8	QO	Oscillator output, 11.52 MHz
9	COP	Sync signal output, 360kHz
10	PD	Phase comparator output
11	C_2	Latch group select input
12	C_1	Latch group select input
13	CO	Latch group select input
14	PO	Frequency dividing ratio preset code input
15	LD	Load signal terminal for frequency dividing ratio preset coad input latch circuit
16	V_{SS}	Ground

3.4 CMOS RAM MN1203

[1] Terminal connections

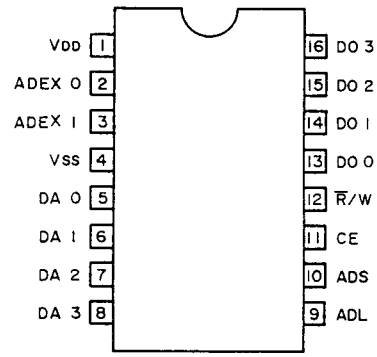


Figure 6

[2] Specifications

Absolute maximum ratings				
Item	Symbol	Rating	Unit	Remarks
Power supply voltage	V_{DD}	-0.3 – +8.0	V	V_{SS} = 0V
Input voltage	V_{IN}	-0.3 – V_{DD} + 0.3	V	V_{SS} = 0V
Output voltage	V_{OUT}	-0.3 – V_{DD} + 0.3	V	V_{SS} = 0V
Operating temperature	Topr	-20 – + 70	°C	
Storage temperature	Tstg	-55 – +100	°C	

[3] Block diagram

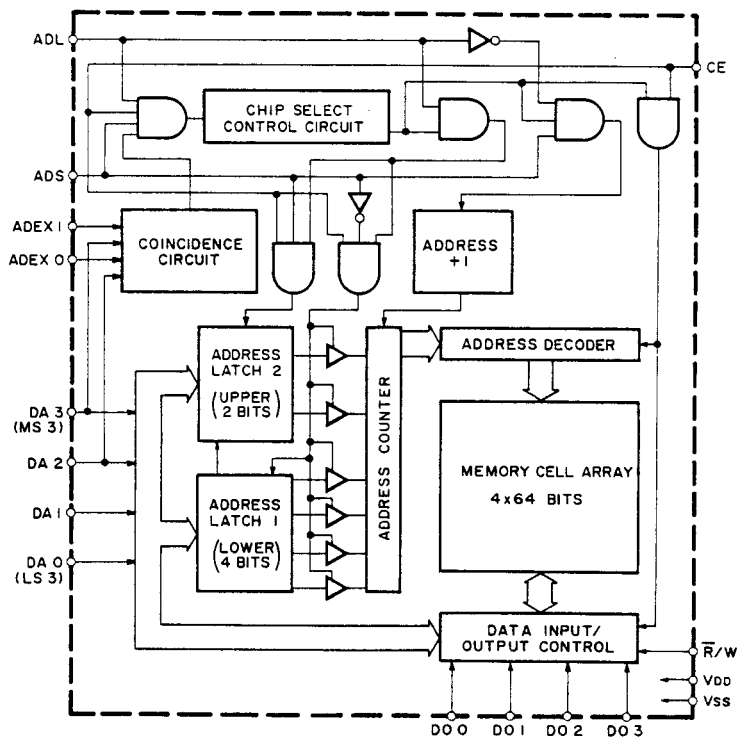


Figure 7

[4] Functions of terminals

No.	Symbol	Descriptions
1	V_{DD}	Power supply, +5V
2	ADEX0	Chip select input
3	ADEX1	Chip select input
4	V_{SS}	Ground
5	DA0	Data/address input
6	DA1	Data/address input
7	DA2	Data/address input
8	DA3	Data/address input
9	ADL	Address latch data input
10	ADS	Address latch select input
11	CE	Chip enable input
12	R/W	Writing designation input
13	DO0	Data output
14	DO1	Data output
15	DO2	Data output
16	DO3	Data output

3.5 Prescaler uPB551C

[1] Terminal connections

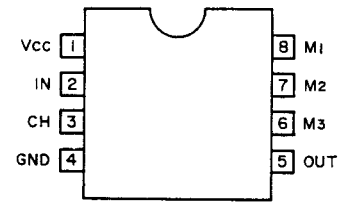


Figure 8

[2] Specifications

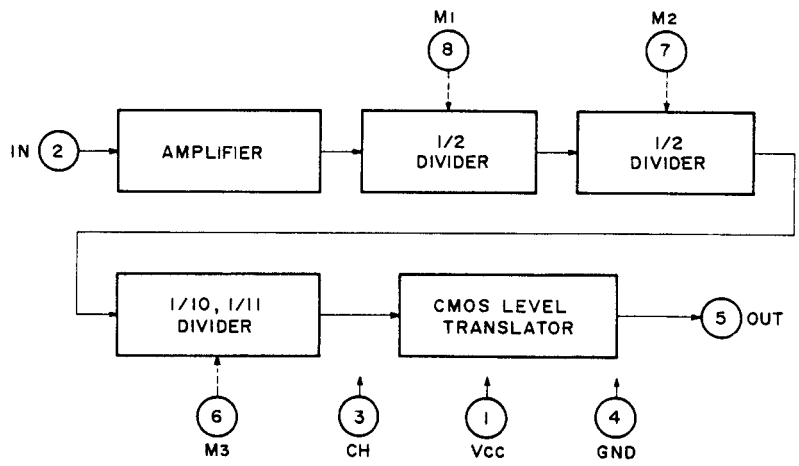
Absolute maximum ratings (Ta = 25° C)

Item	Symbol	Rating	Unit
Power supply voltage	V_{CC}	−0.5 – +6.0	V
Input voltage	V_1	−0.5 – V_{CC}	V
Output current	V_0	15	mA
Junction temperature	T_1	+125	°C
Storage temperature	Tstg	−55°– +125	°C

Electrical characteristics (V_{CC} = 5V ±10%, Ta = -30 — +75° C)

Item	Symbol	Conditions	MIN.	TYP.	MAX.	Unit
Power supply current	I_{CC}	V_{CC} = 5.0V		38	52	mA
High level output voltage	V_{OH}	Out terminal I_0 = −40μA	4.0			V
Low level output voltage	V_{OL}	Out terminal I_0 = 1.0mA			1.0	V
High level input voltage	V_{IH}	M_3 terminal *1	4.0			V
Low level input voltage	V_{IL}	M_3 terminal *2			1.0	V
Input voltage	Vin	IN terminal	140			mVr.m.s.
Response frequency	fin_1	IN terminal, 1/10, 1/11 frequency-division *3	1.0		100	MHz
Response frequency	fin_2	IN terminal, other than 1/10, 1/11 frequency-division *3	1.0		150	MHz

[3] Block diagram



Vcc : "+" POWER SUPPLY
IN : SIGNAL INPUT
CH : CHECK TERMINAL
GND : GROUND
OUT : FREQUENCY-DIVISION OUTPUT
M3-MI : FREQUENCY-DIVISION RATIO SETTING

Figure 9

3.6 Principles of operation of PLL Synthesizer Tuning System

This synthesizer system incorporates a PLL circuit and a microcomputer to electrorically select radio stations by varying the capacity of a varactor diode, eliminating the need for a merchanical variable condenser.

The basic operation of the system is illustrated in Fig. 10. When a reverse voltage is applied to the varactor diode, the junction capacity of the diode is varied which in turn varies the tank tuning frequency and hence the antenna circuit, RF amplifier and local oscillator circuit are tuned to the desired radio frequency.

In FM tuning, the local oscillator frequency fL is divided by 20 by the prescaler, since it is as high as ☆ 98.8—118.6 MHz (or ☆ 98.2—118.7MHz). The divided frequency is then applied to the 1/N programmable counter where it is further divided by N. The divided signal (fL') is phasecompared with the reference signal (fr), which the crystal oscillator frequency (11.52 MHz) is count down by the reference frequency divider. If there is a difference in frequency or phase between the two signals, an error output (er) corresponding to the difference is produced.

The error output is a pulse signal and its DC component is picked up by the LPF in the next stage. The DC component is fed back to the varactor diode to vary the local oscillator frequency.

When the local oscillator frequency is varied and "fr" and "fL'" are equal, the phase sync loop is locked.

$fL' = fL/20N = fr$

$fL = 20Nfr$

By changing the value of N (an integer) fed from the microcomputer to the 1/N programmable counter, the local oscillator frequency can be varied in 20fr steps. When tuning FM in 200kHz steps, the value of N = 2N' (N': integer) is fed from the microcomputer. Proper tracking adjustment between the tuning circuit for the antenna and RF amplifier and the local oscillator tuning circuit enables reception of the desired station.

The microcomputer programs the relationship between the receiving mode, intermediate frequency and the value of N and feeds the data of the receiving frequency via the driver to indicate the tuned frequency on the fluorescent tube indicator.

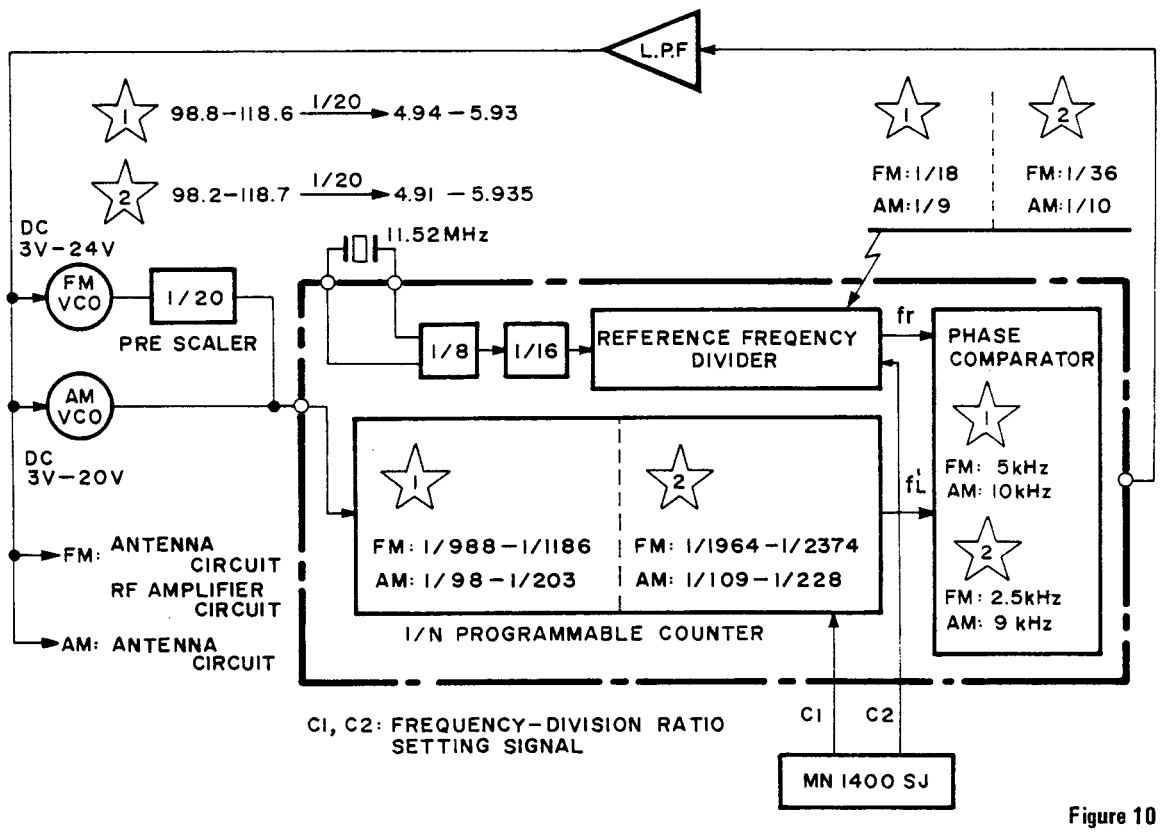


Figure 10

	SCAN STEP	Receiving frequency	Intermediate frequency	Local Oscillator frequency	Number of channels	Phase comparator reference frequency
☆1	FM:200kHz AM:10kHz	88.1MHz – 107.9MHz 530kHz – 1,610kHz	10.7MHz 450kHz	98.8MHz – 118.6MHz 980kHz – 2,060kHz	100 109	5kHz 10kHz
☆2	FM:50kHz AM:9kHz	87.50MHz – 108.00MHz 531kHz – 1,602kHz	10.7MHz 450kHz	98.2MHz – 118.7MHz 981kHz – 2,052kHz	411 120	2.5kHz 9kHz

Mode Setting and Control Key Connections

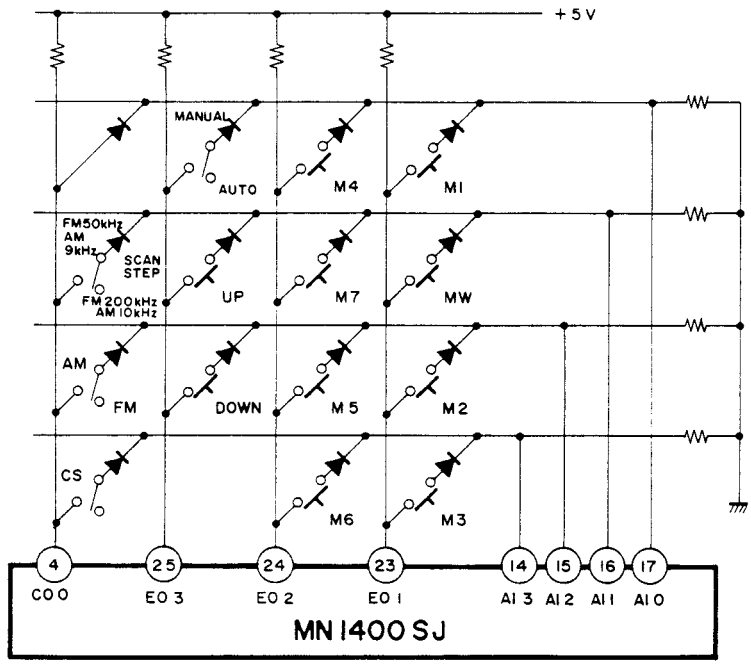


Figure 11

MW: Memory write
- * Memory write is posssible with key input.
- * Memory write mode is retained for 5 seconds after key input is turned ON.

M1 – M7: Memory address
- * Received station is stored in memory by key input in memory write mode.
- * Station frequency scanned in memory is called in modes other than "memory write".

UP, DOWN: Up/Down scan

Mode switch in AUTO: Scanned at about 110 msec/ch intervals.

Mode switch in MANUAL: a) Step scan by channel.
b) Scanned at about 90 msec/ch one second after continuous key input.

Scan stop: AUTO . . . Activated by Squelch signal (receive signal).
MANUAL . . . Activated by Key input OFF.

AUTO/MANUAL: Scan AUTO/MANUAL select switch.
- * AUTO . . . . Automatic scan with up/down key input.
- * MANUAL . . Manual scan with up/down key input.

AM/FM: AM/FM select switch
- * Selects AM and FM bands.
- * Calls the last channel of the selected band.

CS: Chip select switch
- * Display goes off at ON position.
- * Control key input is inhibited at the same time.

SCAN STEP: Channel space and frequency select switch
- * AM 10K: 10kHz space 530kHz – 1610kHz
- * FM 200K: 200kHz space 88.1MHz – 107.9MHz
- * AM 9K: 9kHz space 531kHz – 1602kHz
- * FM 50K: 50kHz space 87.50MHz – 108MHz

Switches other than SCAN STEP are transistor switches and used for remote control capability.

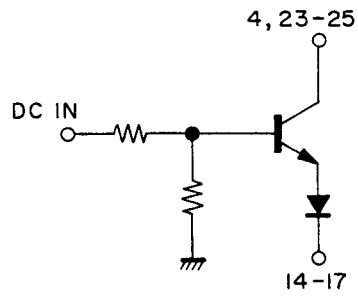


Figure 12

Indicator

The indicator employs fluorescent tubes for dynamic lighting.

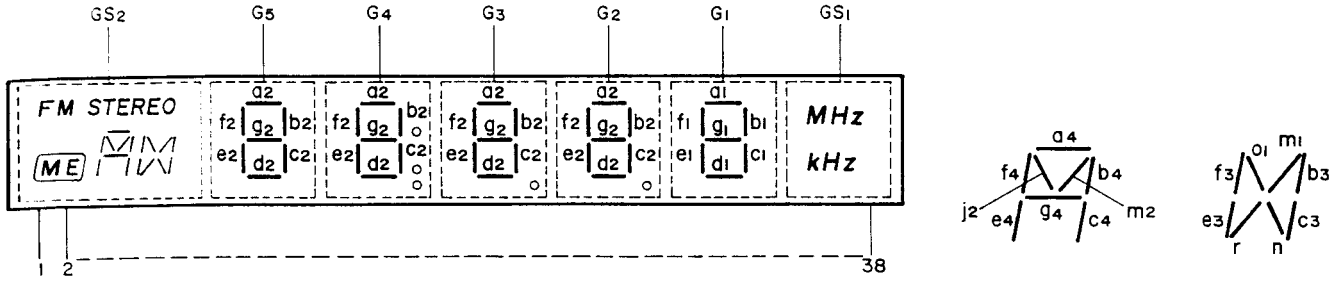


Figure 13

Pin. No.	Conection	Pin. No.	Conection	Pin. No.	Conection	Pin. No.	Conection
1	F	11	b_4	21	G_3	31	a_2
2	FM STEREO	12	a_4	22	e_2	32	g_1
3	ME	13	G_5	23	Dp_3	33	b_1 , e_1
4	GS_2	14	j_1 , m_1	24	Dp_2	34	GS_1
5	j_2 , m_2	15	n, r	25	d_2	35	a_1 , f_1 , c_1 , d_1
6	g_4	16	b_3 , c_3 , e_3 , f_3	26	G_2	36	KHz
7	e_4	17	G_4	27	Dp_1	37	MHz
8	d_4	18	g_2	28	C_2	38	F
9	c_4	19	f_2	29	b_2		
10	GS_3	20	Col	30	G_1		

Dynamic lighting Timing chart

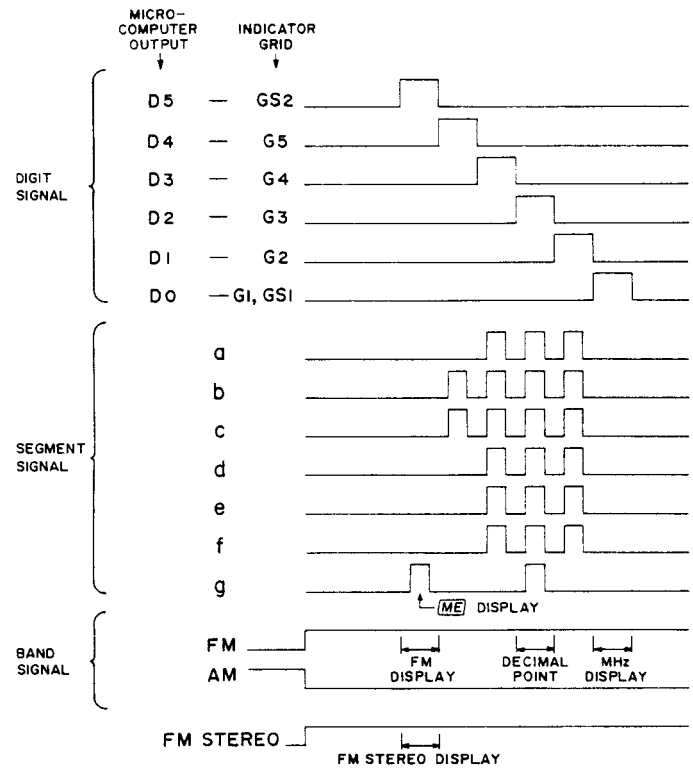


Figure 14

*In the above timing chart, the display lights on FM STEREO, ME and FM 108.00 MHz.

*For the indication of minimum digit (G1), the segments a1, c1, d1 and f1 are always lighted, the letter 5 is lighted by the signal g, and the figure 0 is lighted by signals b1 & e1 fed by Q902 & Q903 when the signal g is low level.

4. ALIGNMENT PROCEDURES

A dummy resistor of 47 kohms must be connected across the tuner output terminals before alignment.

4.1 FM Alignment Procedures (Selector swtich in the "FM" position, Rec. Mode Switch in the "Direct" position and mode/tuning switch in the "Mono/Manual" position)

Step	Signal Source Connection	Signal Frequency	Indicator Connection	Set the Digital Read out Frequency to:	Adjust:
FM LOCAL OSCILLATOR ALIGNMENT (Scan step selector switch (SU51) in the "50 KHz" position)					
1			DC Volt meter in 30V and 3V range to point Ⓐ (J120 or JA12)	108.00 MHZ	C159 for 20.0V
2				87.50 MHZ	L106 for 3.0V
3	Repeat steps 1 and 2.				
FM RF ALIGNMENT					
1	RF generator to FM antenna terminals Ⓑ through matching network (300 ohms balanced) (Maintain RF level below limit)	106, 10 MHz	VTVM to L or R channel output (JT51 or JV11)	106, 10 MHz	C156, C157, C158 for maximum output and minimum distortion
2		90, 10 MHz		90, 10 MHz	L101, L120, L121 for maximum output and minimum distortion
3	Repeat steps 1 and 2				
4	RF generator to FM antenna terminals Ⓑ through matching network (300 ohms balanced) (Maintain RF level below limit)	98, 10 MHz	VIVM to L or R channel output (JT51 or JV11)	98, 10 MHz	L105 for maximum output and minimum distortion
5	No. Connection	No. Signal	"O" Center Meter or DC current meter in 100μA range to point Ⓒ (J131 and J132)		L109 Core so that the meter indicater its center or may read "O"
6	RF generator 1mV output to FM antenna terminals B through maching network (300 ohms, balanced)	98, 10 MHz	Distortions meter to L or R Channel output (JT51 or JV11)	98, 10 MHz	L110 core for minimum distortion
7					RS51 so that signal Strength Led may light 5 points
Muting circuit Alignment (FM Stopping Level of Scanning / FM Stereo indicator threshold Level)					
1	RF generator 12.5μV output to FM antenna terminal Ⓑ through matching network (300 ohms balanced)	98, 10 MHz	VTVM to R or L channel output (JT51 or JV11)	98, 10 MHz	R131 for 12.5μV threshold Level (Setting to Auto position of mode switch)

MULTIPLEX ALIGNMENT PROCEDURES

(Selector switch in the "FM" position. Rec Mode Switch in the "Direct" position and Mode/Tuning switch in the Stereo/Auto position)

Step	Signal Source Connection	Signal Frequency	Indicator Connection	Set the Digital Read out Frequency to:	Adjust:
1	RF generator to FM antenna terminals Ⓑ through matching network (300 ohms balanced) with 1mV FM stereo simulator RF level and 100% modulation (pilot 9%)	NO, modulation	Frequency counter to point Ⓓ (J302)	98, 10 MHz	R302 so that Frequency counter may precisely read 76kHz
2		Stereo, left (1,000 Hz)	VTVM to right channel (JT51 or JV11)		R326 for maximum output and same separation in both channels.
3		Stereo right (1,000 Hz)	VTVM to left cannel output terminal (JT51 or JV11)		
4	Repeat step 2 and 3				
5	RF generator to FM antenna terminals Ⓑ through matching network (300 ohms, balanced). with 1mV FM stereo simulator RF level and Pilot 9% modulation	Pilot only	VTVM to right and left channel output (JT51 or JV11)	98, 10 MHz	R306 so that minimum output should be the same in both channels.

4.2 AM ALIGNMENT Procedures (Selector Switch in the "AM" position. Rec. Mode Switch in the "DIRECT" position and Mode/Tuning switch in the "MONO/MANUAL" position)

Step	Signal Source Connection	Signal Frequency	Indicator Connection	Set the Digital Read out Frequency to:	Adjust:
AM LOCAL OSCILLATOR ALIGNMENT (Scan Step Selector switch (SU51) in the "10KHz" position)					
1	—	—	DC Volt meter in 30V and 3V range to point Ⓐ (J120 ro JA12)	1610 kHz	CA35 for 25V
2				530 kHz	LA01 for 2.0V
3	Repeat step 1 and 2				
AM IF ALIGNMENT					
1	Sweep generator to point Ⓔ (RA20)	450kHz marker	Oscilloscope to point Ⓕ (JA03)	Quiet point on band	LA02 & LA03 for maximum and symmetric response.
AM RF ALIGNMENT					
1	Apply the signal to the AM bar antenna from the RF generator, using the test loop. As pea the Figure 15	1400kHz	VTVM to L or R Channel output (JT51 or JV11)	1400kHz	CA49 for maximum output
2		600kHz		600kHz	LO51 for maximum output
3	Repeat step 1 and 2 as necessary to obtain maximum sensitivity.				

AM STOPPING LEVEL OF SCANNING (Mode/Tuning Switch in the Stereo/Auto position)					
Step	**Signal Source Connection**	**Signal Frequency**	**Indicator Connection**	**Set the Digital Read out Frequency to:**	**Adjust:**
1	Apply the signlal Level of 700μV to the AM bar antenna from the RF generator using the test loop as per the Figure 15	1,000 kHz	VTVM to L or R Channel output (JT51 or JV11)	1,000 kHz	RA34 for 700μV threshold Level

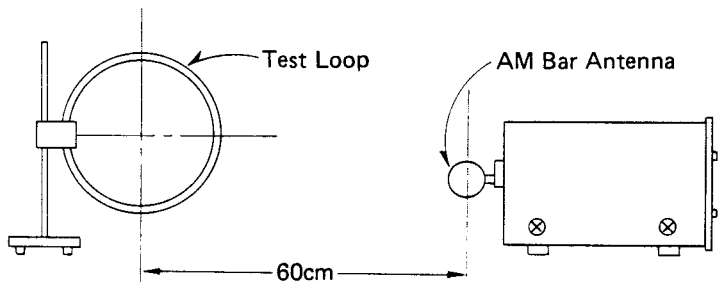
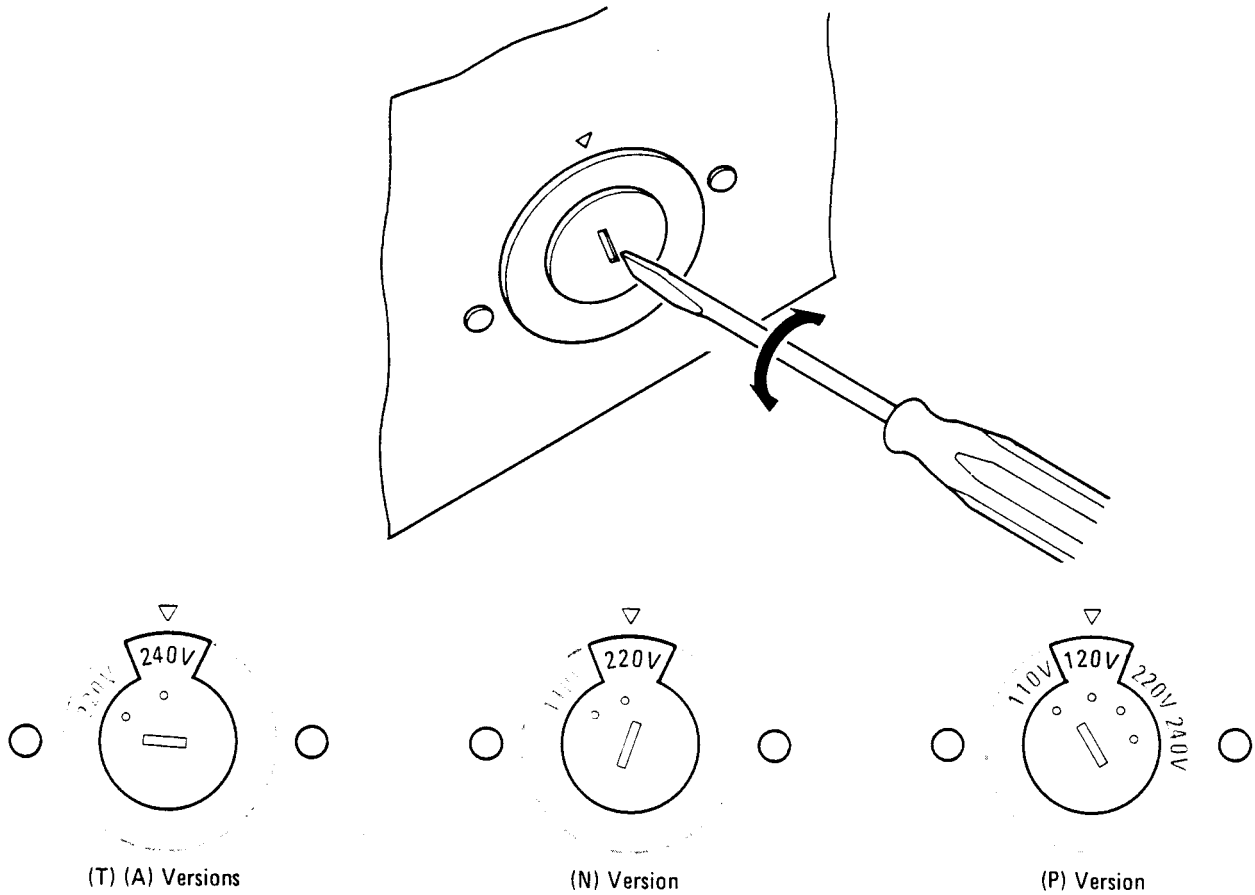


Figure 15

5. VOLTAGE CONVERSION

To convert the unit to a different power source voltage, change the position as illustrated in the drawing below.

CAUTION: **DISCONNECT POWER SUPPLY CORD FROM AC OUTLET BEFORE CONVERTING VOLTAGE. DO NOT DISASSEMBLE THE VOLTAGE SELECTOR ABSOLUTELY.**



(T) (A) Versions (N) Version (P) Version

Figure 16. Voltage Conversion

NOTE ON SAFETY: THE PARTS MARKED WITH ⚠ ARE IMPORTANT PARTS ON THE SAFETY. PLEASE USE THE PARTS HAVING THE DESIGNATED PARTS NUMBERS WITHOUT FAIL.

FTZ REGULATION

Instruction for the use in the range other than specified in FTZ codes.

Achtung für die Leute, die in dem Gebiet wohnen, wo die FTZ-Bestimmungen vorherrschend sind.

Sollte das Gerät auch für Frequenzen auszerhalb des in den FTZ-Bestimmungen angegebenen Bereiches empfangebereit sein, bitten wir, den Bereich durch Nachstellen des Kernes in der Oszillatorspule (in der Abbildung mit "FTZ" gekennzeichnet) so zu korrigieren, dass er den Bestimmungen entspricht.

6. DIAGRAM

6.1 BLOCK DIAGRAM

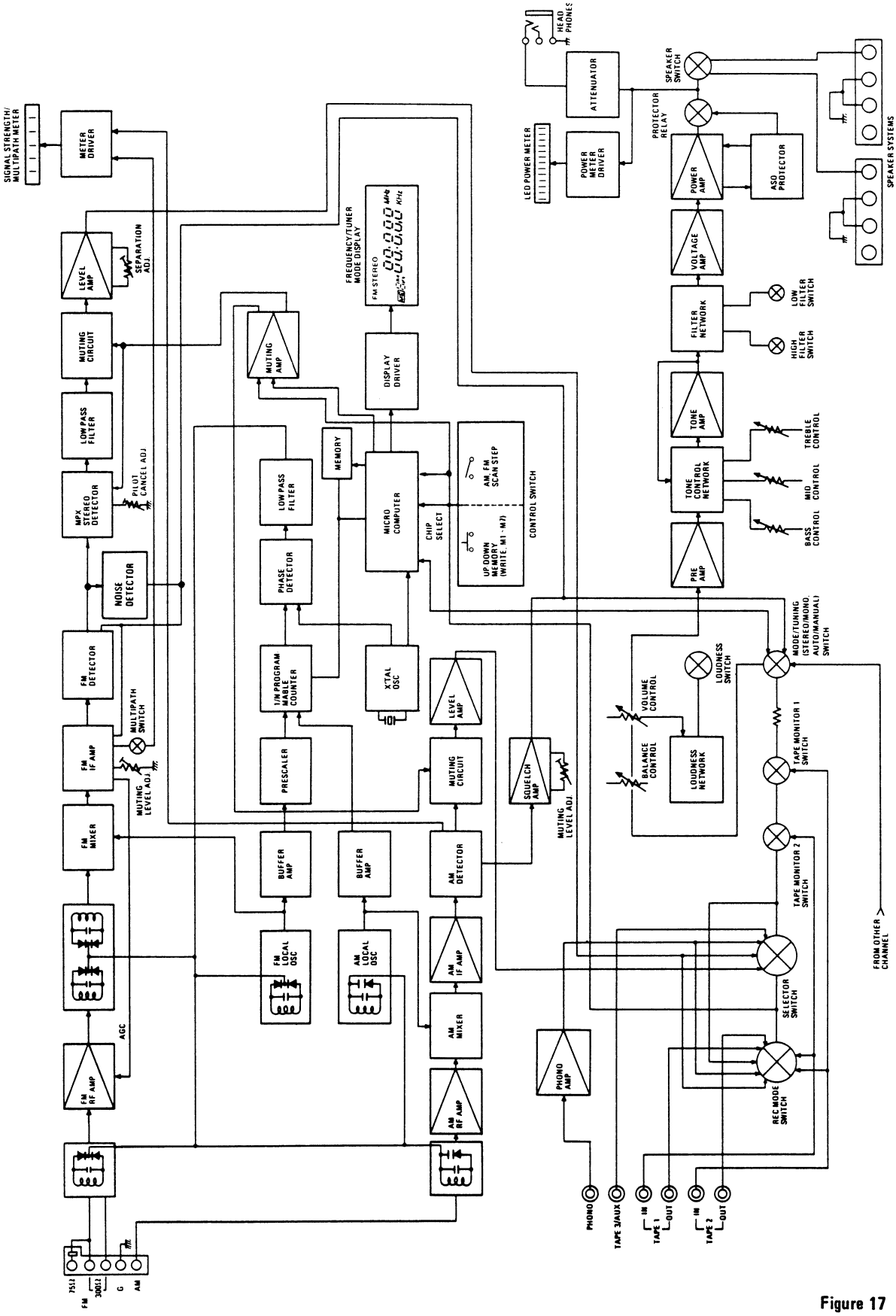
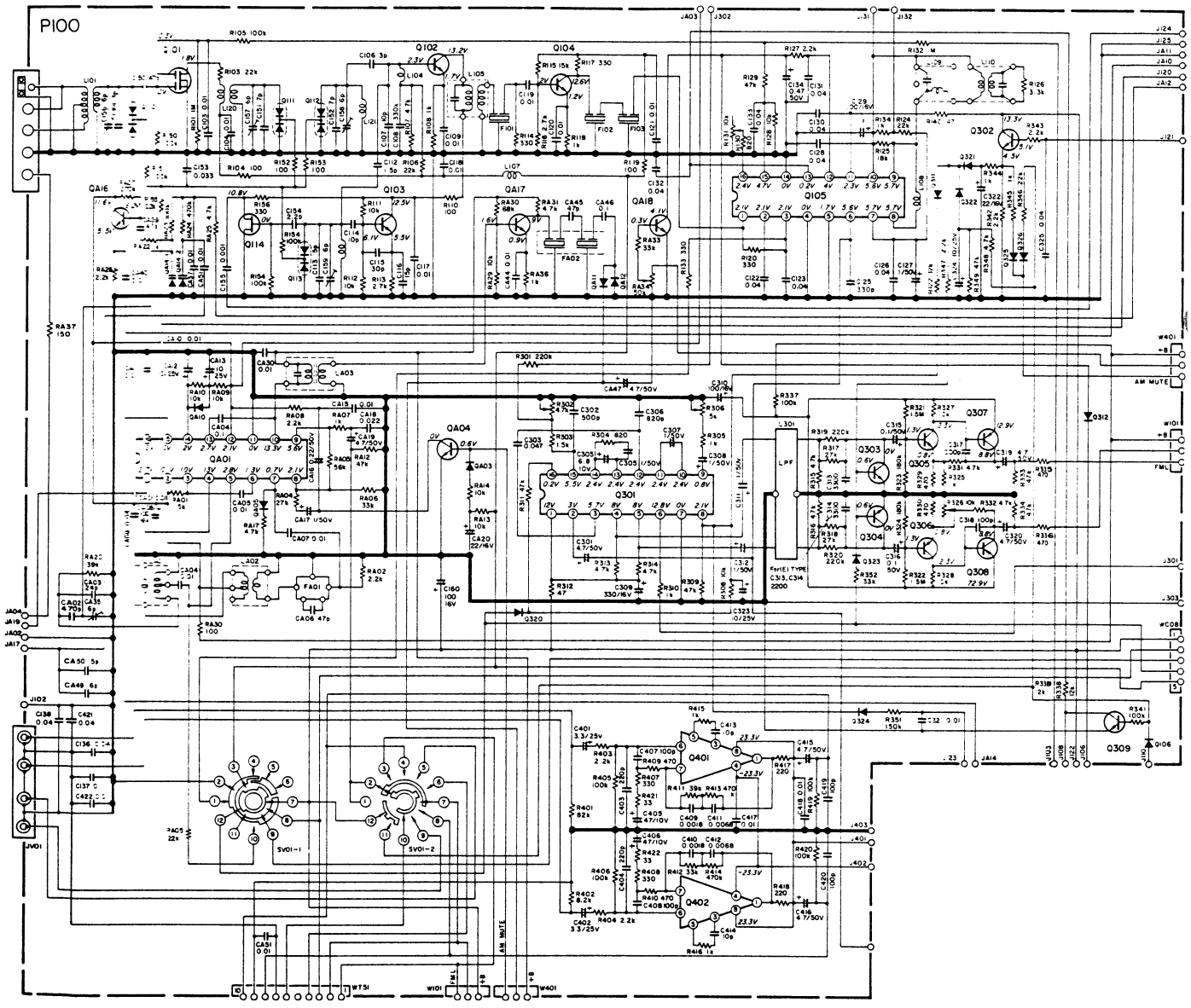
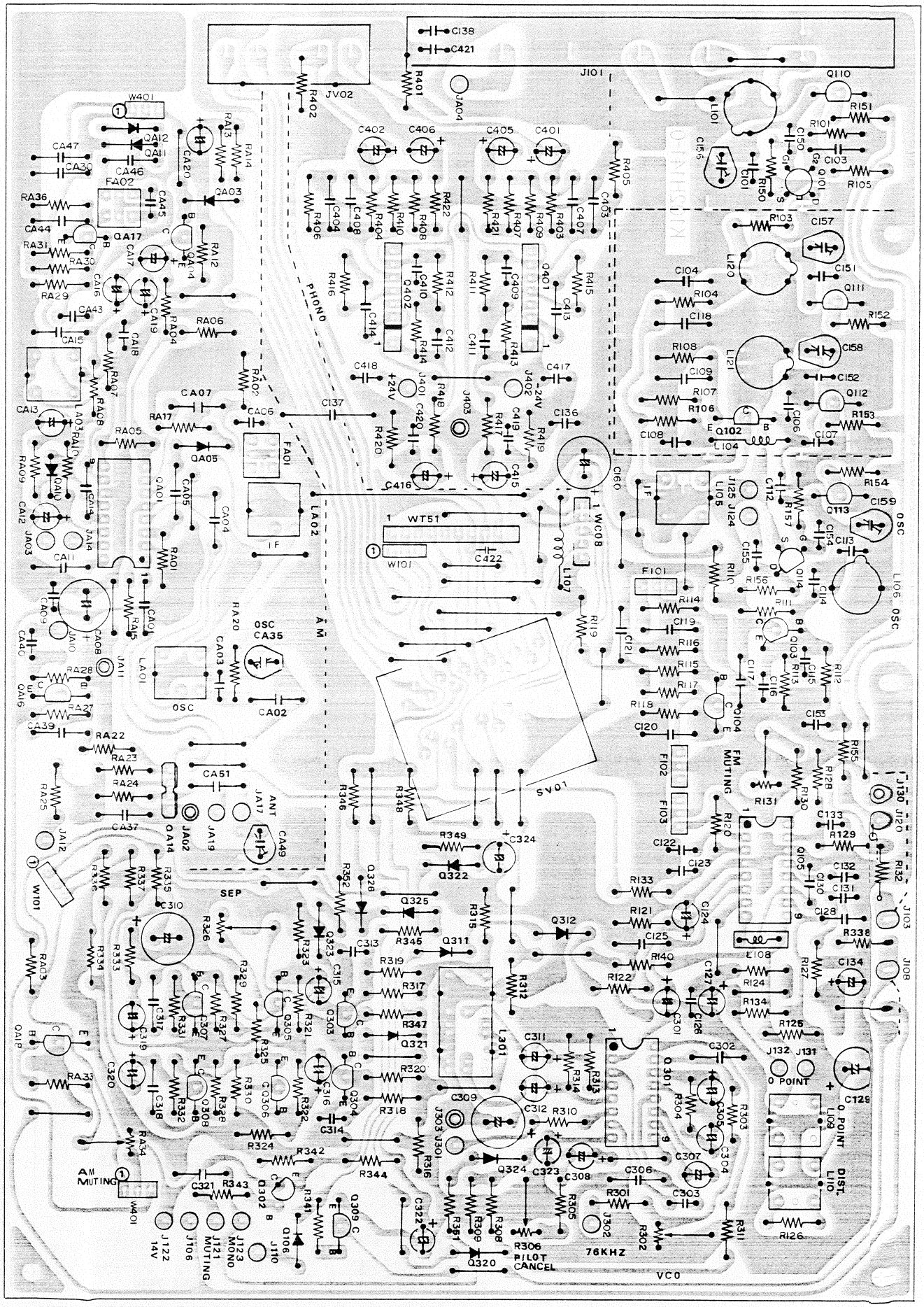


Figure 17

6.2 TUNER/PHONO BOARD SCHEMATIC DIAGRAM AND COMPONENT LOCATIONS - P100

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J103
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J105
J106
J107
J108
J109
J110
J120
J121 MUTING
J122 14V
J123 MONO
J124
J125
J130
J131
J132
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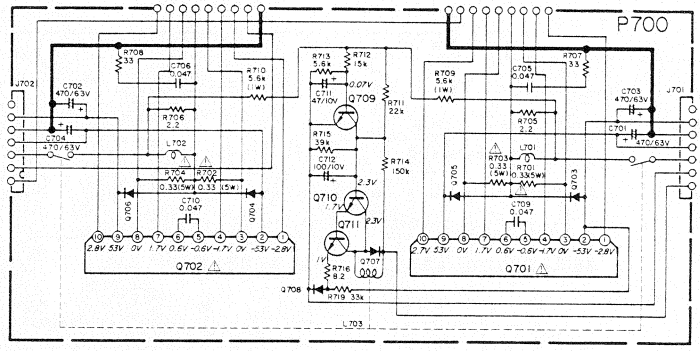
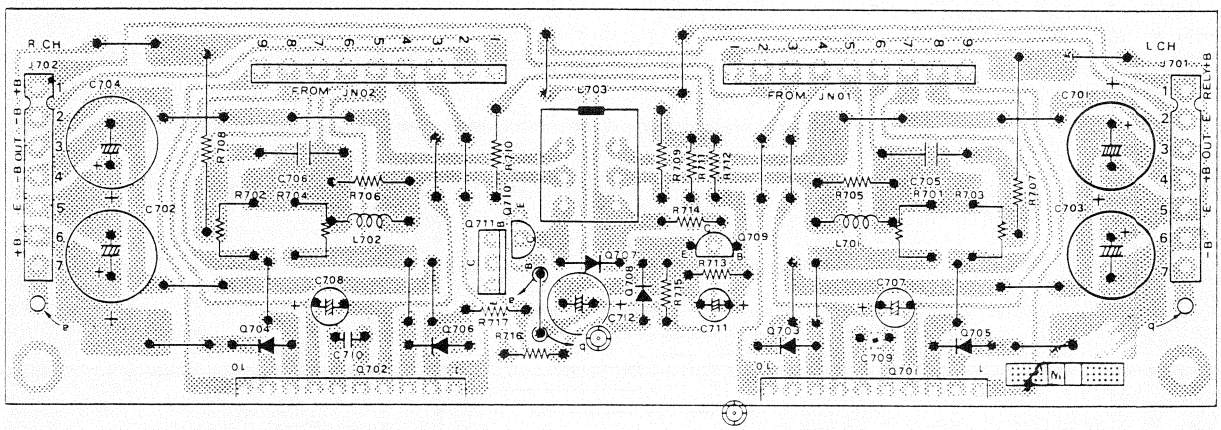
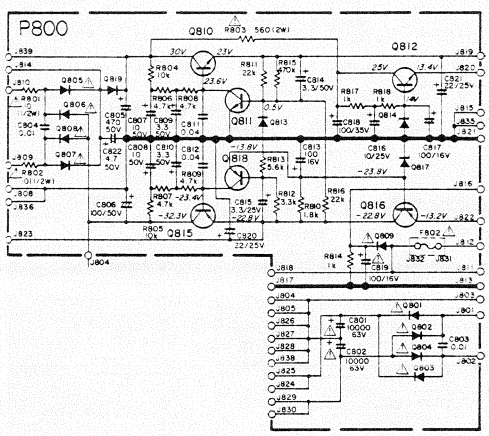
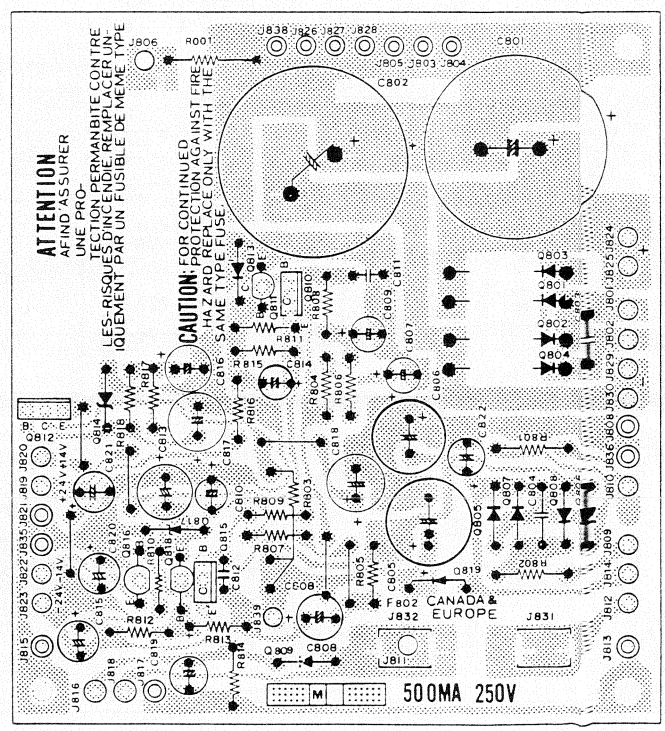
6.3 POWER AMP BOARD SCHEMATIC DIAGRAM AND COMPONENT LOCATIONS - P700



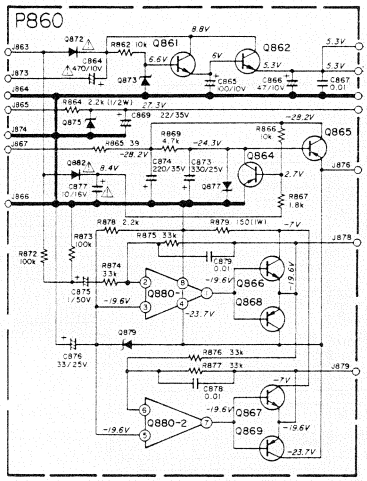


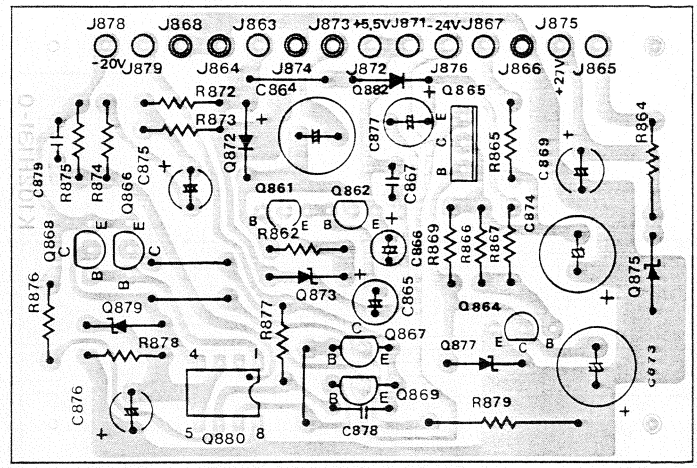
6.4 POWER SUPPLY BOARD SCHEMATIC DIAGRAM AND COMPONENT LOCATIONS - P800



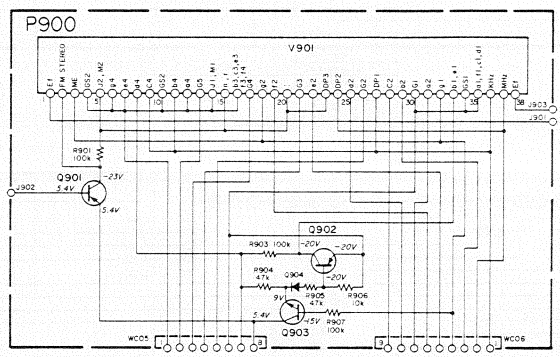


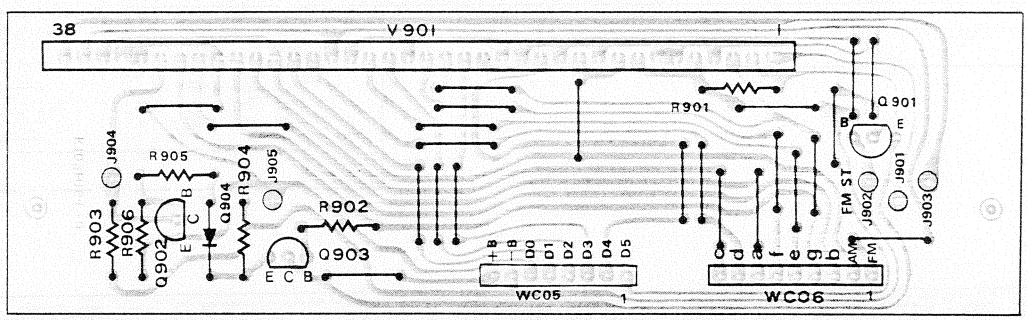
6.5 SUB POWER SUPPLY BOARD SCHEMATIC DIAGRAM AND COMPONENT LOCATIONS - P860



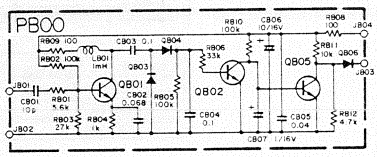


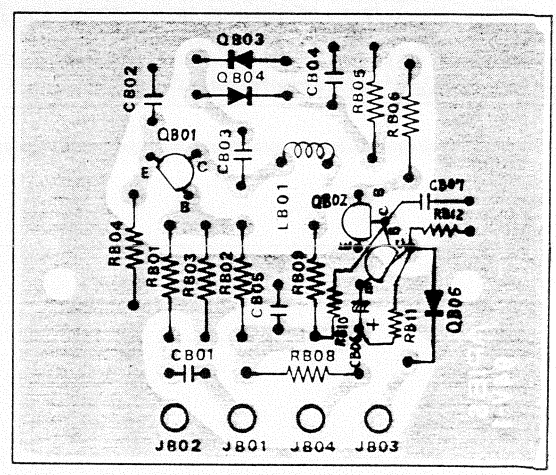
6.6 DISPLAY UNIT BOARD SCHEMATIC DIAGRAM AND COMPONENT LOCATIONS - P900



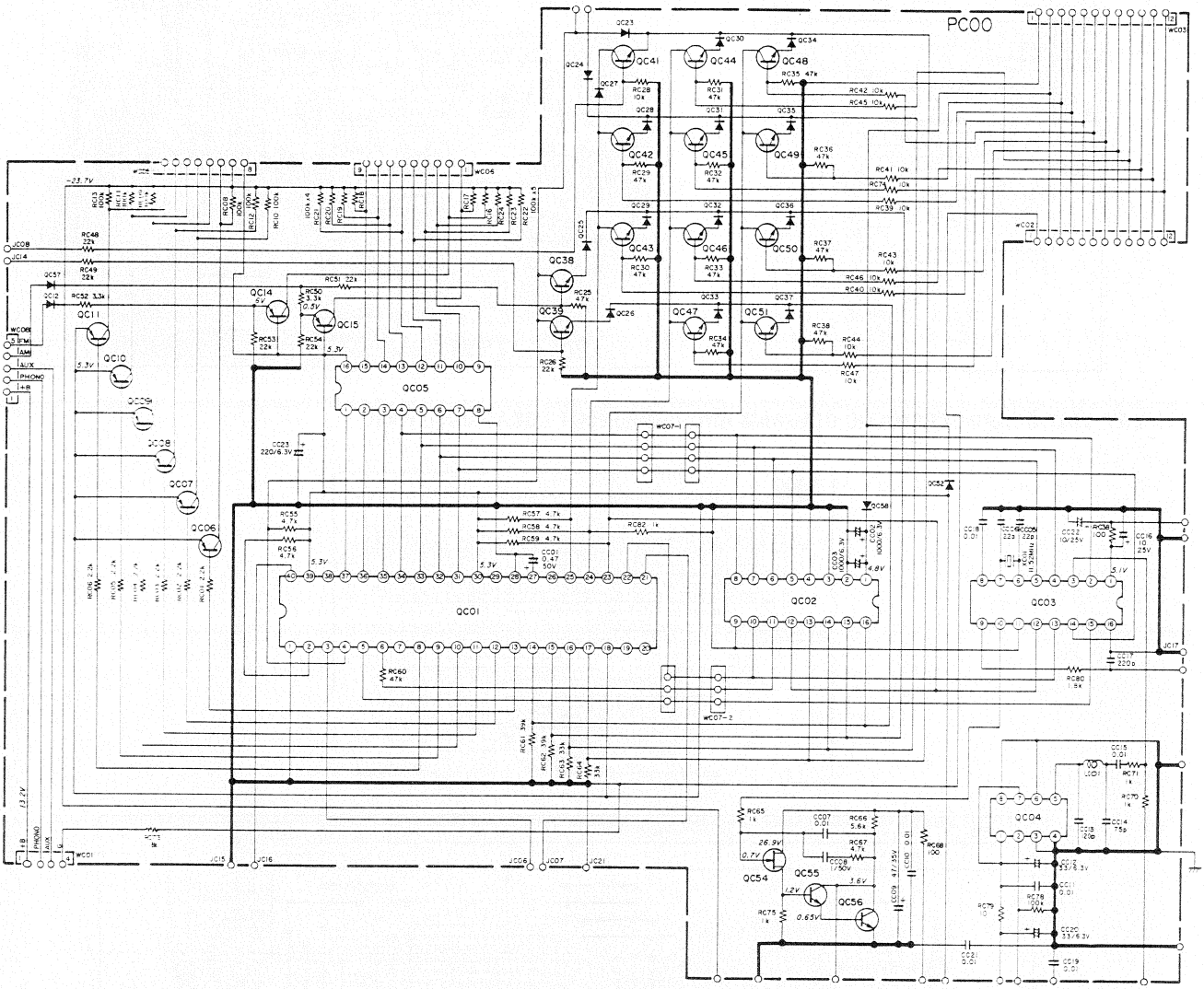


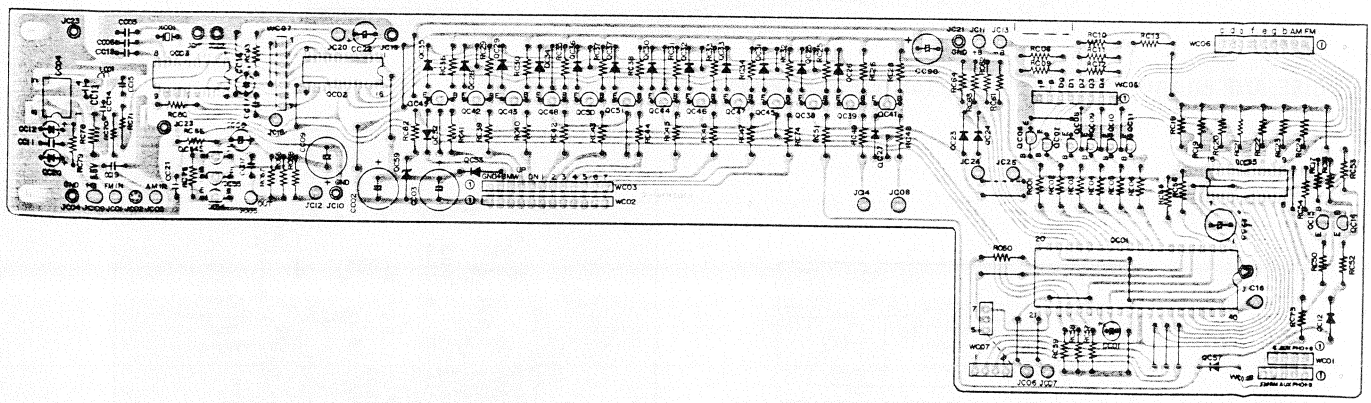
6.7 NOISE AMP BOARD SCHEMATIC DIAGRAM AND COMPONENT LOCATIONS - PB00



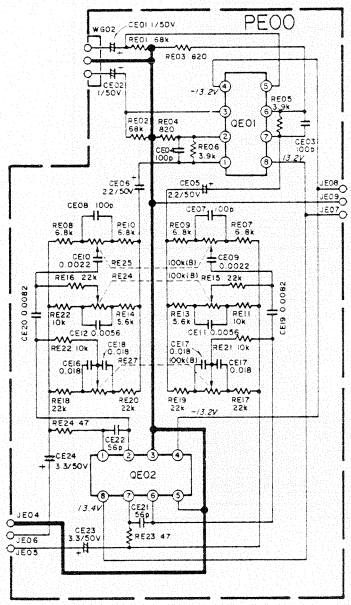


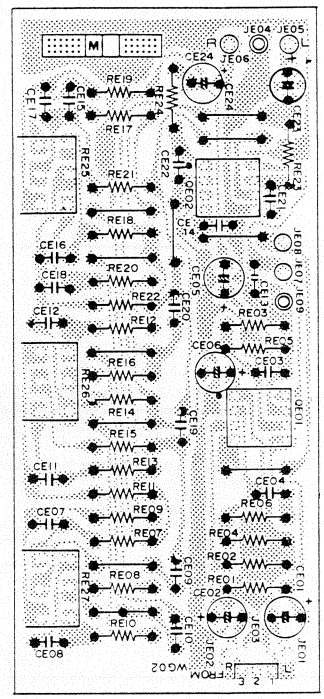
6.8 SYNTHESIZER BOARD SCHEMATIC DIAGRAM AND COMPONENT LOCATIONS - PC00



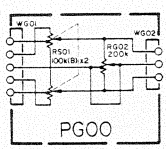


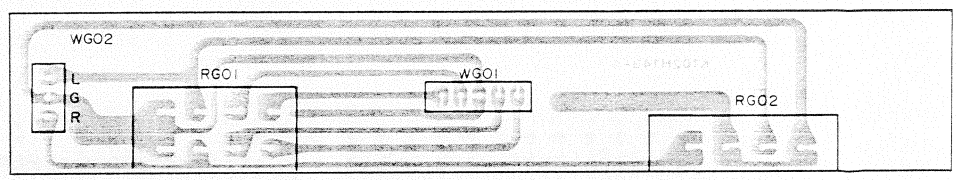
6.9 TONE AMP BOARD SCHEMATIC DIAGRAM AND COMPONENT LOCATIONS - PE00



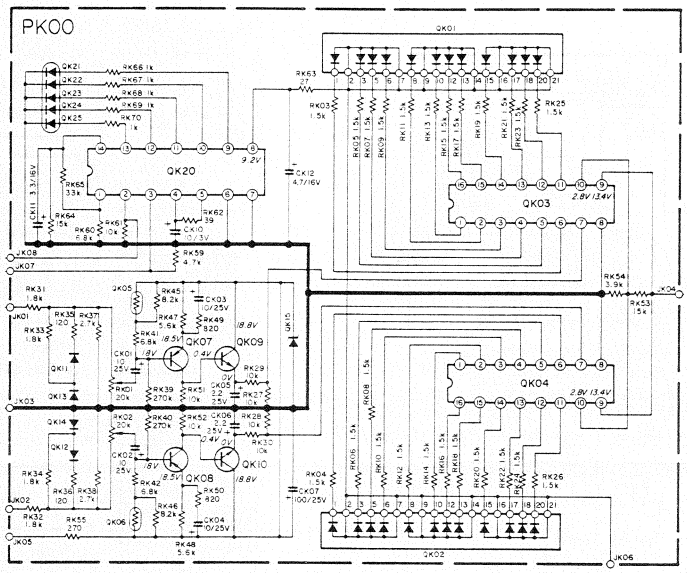


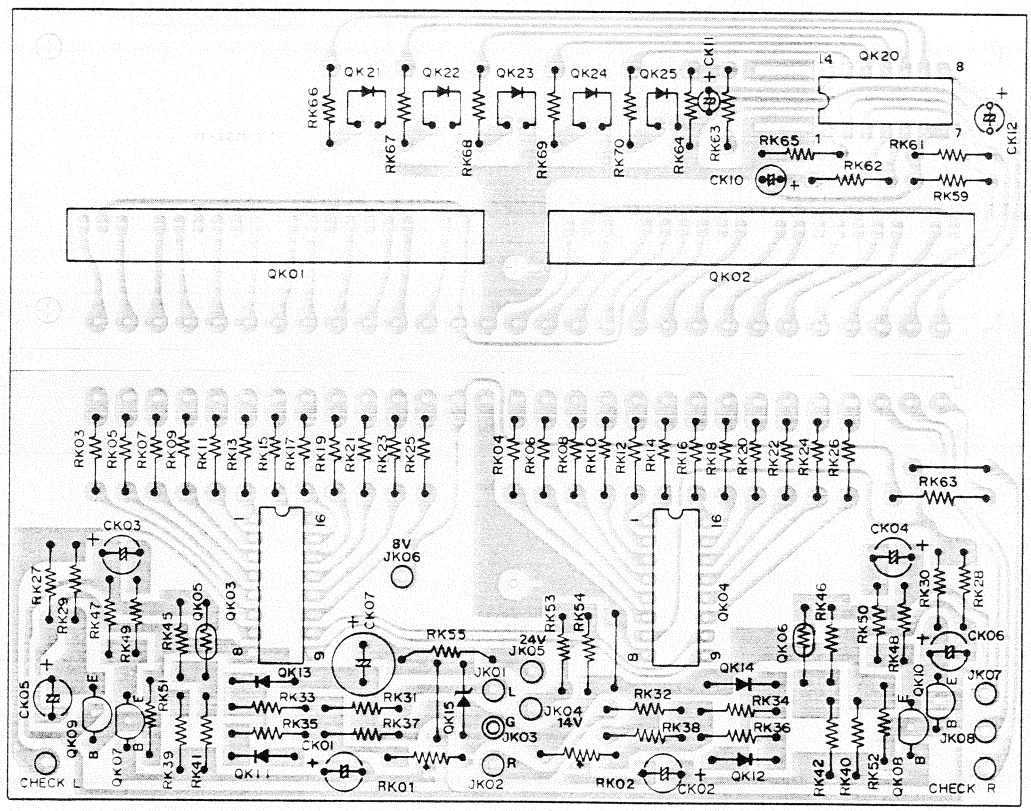
6.10 VOLUME/BALANCE BOARD SCHEMATIC DIAGRAM AND COMPONENT LOCATIONS - PG00



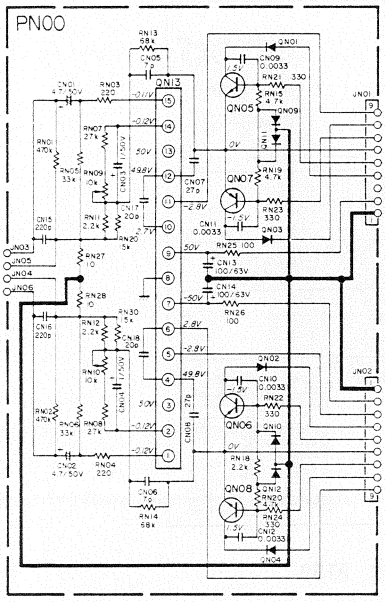


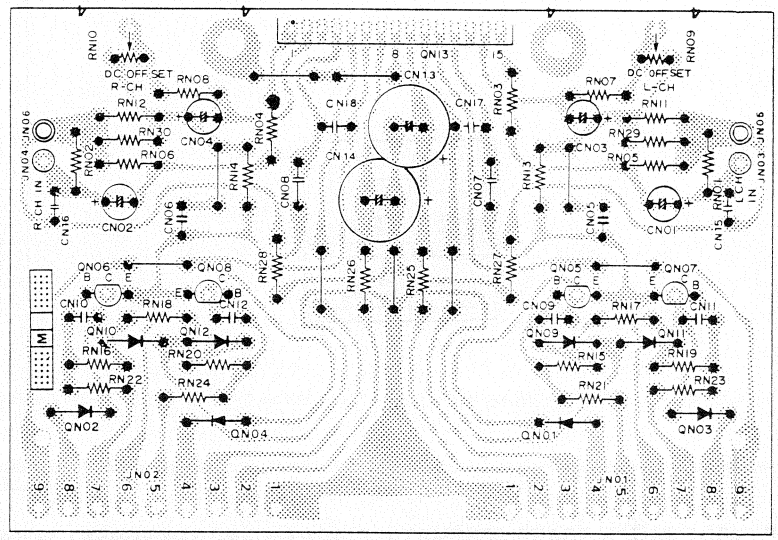
6.11 POWER LEVEL LED BOARD SCHEMATIC DIAGRAM AND COMPONENT LOCATIONS - PK00



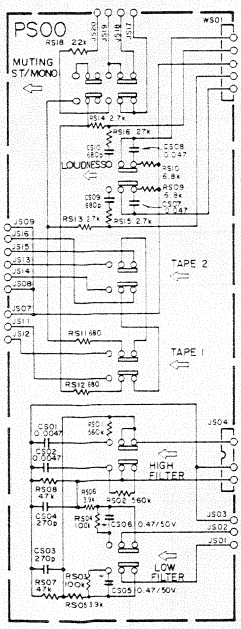


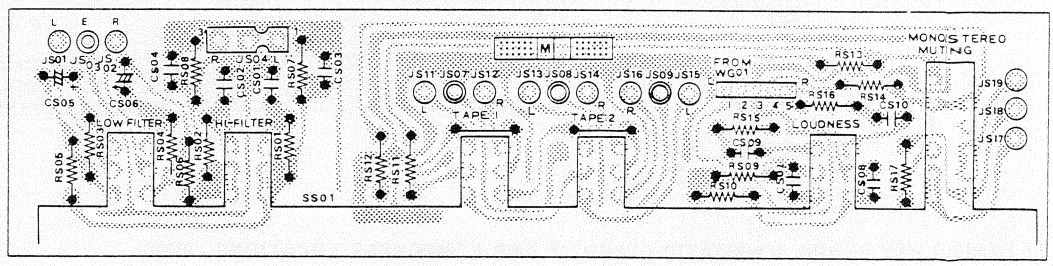
6.12 VOLTAGE AMP BOARD SCHEMATIC DIAGRAM AND COMPONENT LOCATIONS - PN00



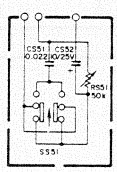


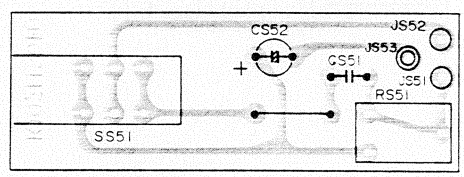
6.13 TAPE/FILTER/LOUDNESS BOARD SCHEMATIC DIAGRAM AND COMPONENT LOCATIONS - PS00



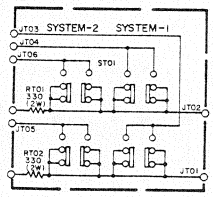


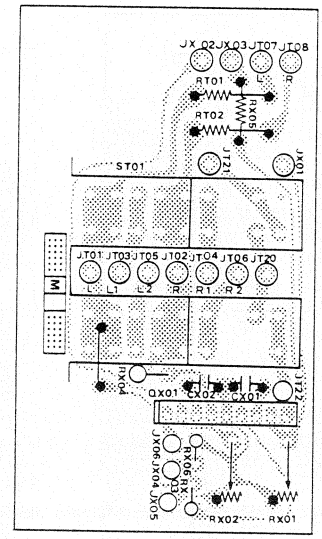
6.14 MULTIPATH BOARD SCHEMATIC DIAGRAM AND COMPONENT LOCATIONS - PS50



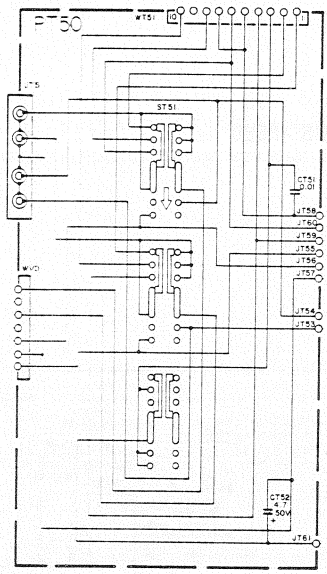


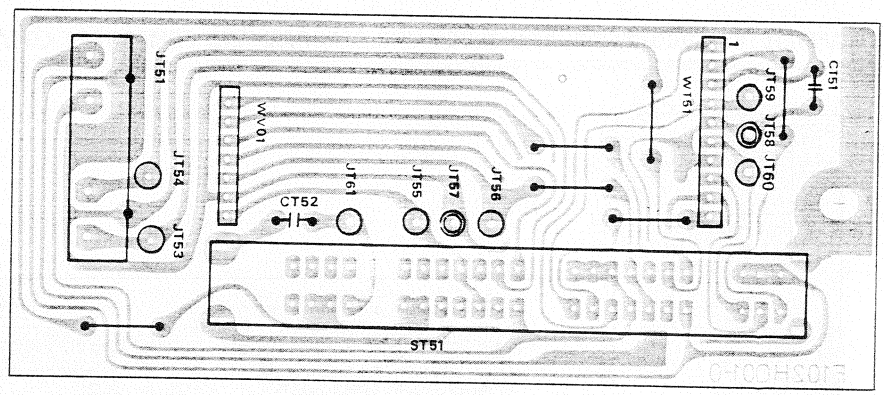
6.15 SPEAKER SWITCH BOARD SCHEMATIC DIAGRAM AND COMPONENT LOCATIONS - PT00



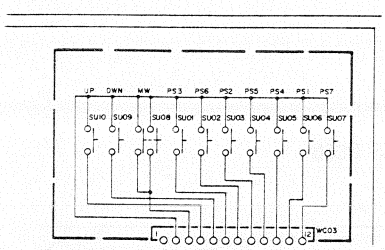


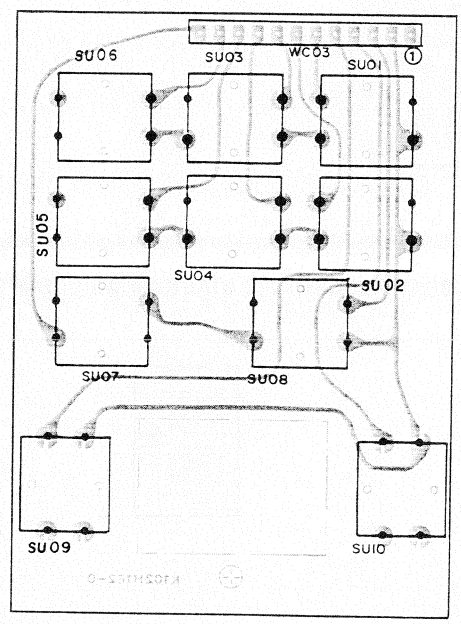
6.16 REC. MODE SWITCH BOARD SCHEMATIC DIAGRAM AND COMPONENT LOCATIONS - PT50



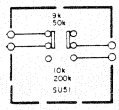


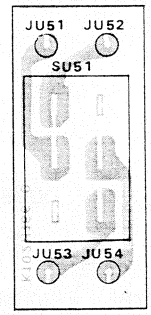
6.17 TUNING KEY BOARD SCHEMATIC DIAGRAM AND COMPONENT LOCATIONS - PU00



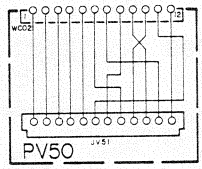


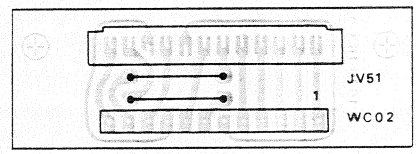
9.18 SCAN STEP BOARD SCHEMATIC DIAGRAM AND COMPONENT LOCATIONS-PT50



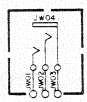


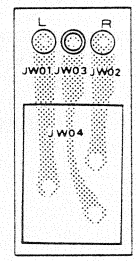
6.19 REMOTE CONT. BOARD SCHEMATIC DIAGRAM AND COMPONENT LOCATIONS - PV50



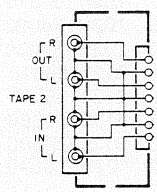


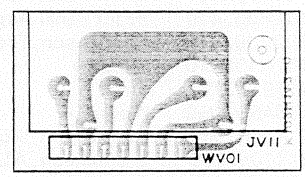
6.20 PHONE JACK BOARD SCHEMATIC DIAGRAM AND COMPONENT LOCATIONS - PW00



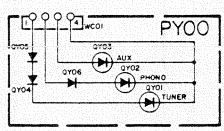


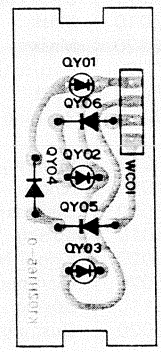
6.21 TAPE 2 TERMINAL BOARD SCHEMATIC DIAGRAM AND COMPONENT LOCATIONS - PV00





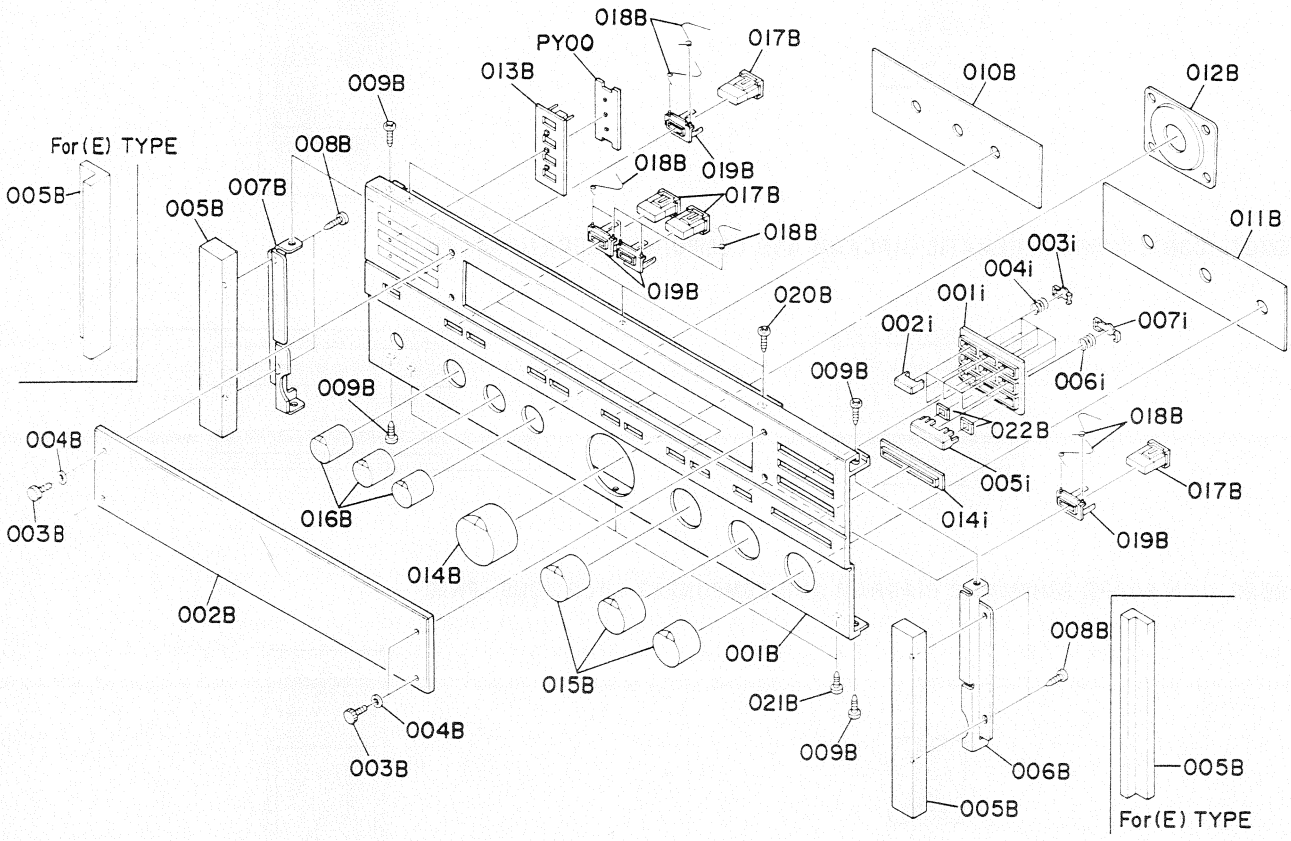
6.22 FUNCTION INDICATOR BOARD SCHEMATIC DIAGRAM AND COMPONENT LOCATIONS - PY00





7. EXPLODED VIEWS AND PARTS LIST

7.1 [C01-99] FRONT PANEL

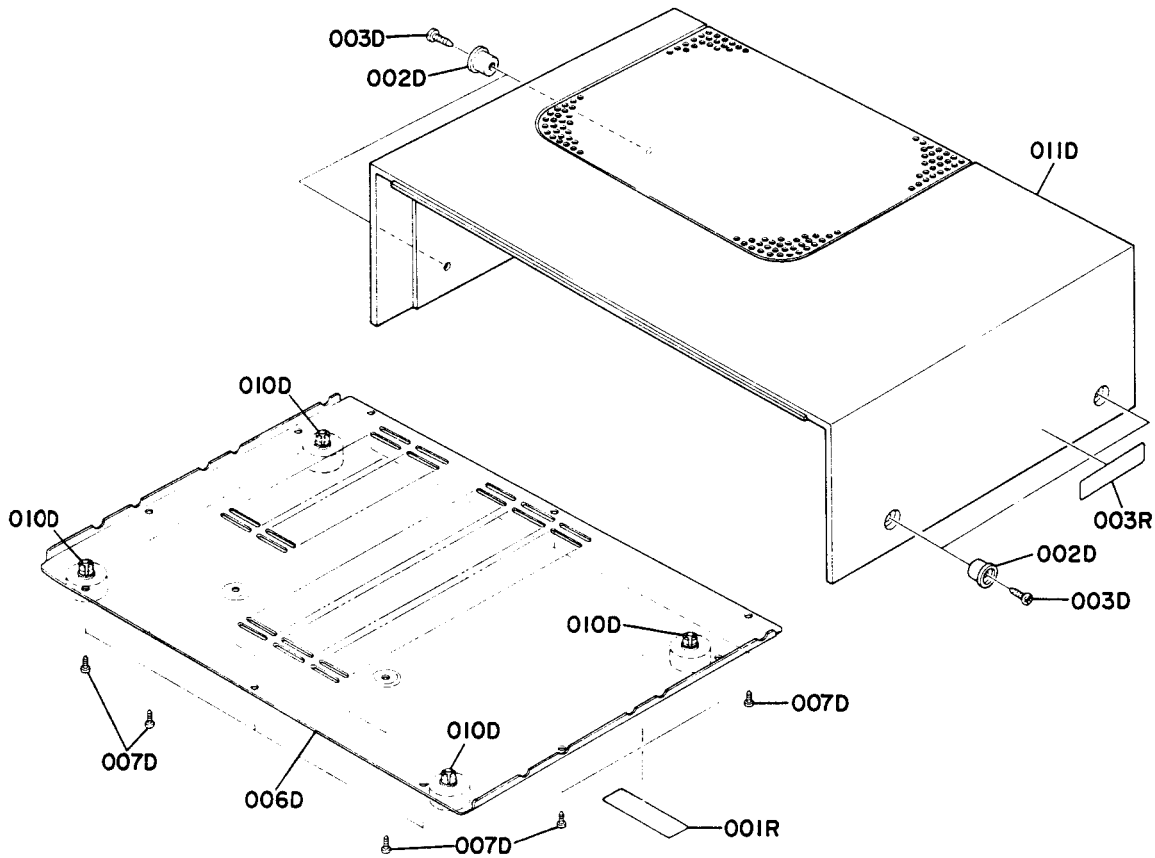


- (U): for U.S.A.
- (C): for Canada
- (E): for Europe

REF. DESIG.	Q'TY U	C	E	PART NO.	DESCRIPTION
A	1	1		102H063400	Front Panel Assembly
A1			1	102H063410	Front Panel Assembly
001B	1	1	1	102H063010	Escutcheon, Front Panel
002B	1	1	1	102H158010	Window
003B	4	4	4	4279112020	Shaft
004B	4	4	4	59046502G9	Washer
005B	2	2		2112063040	Escutcheon, Wood
005B			2	2112063050	Escutcheon, AL.
006B	1	1	1	102H160020	Bracket (R)
007B	1	1	1	102H160030	Bracket (L)
008B	4	4		51400310A9	B.H. Tapped Screw B3 x 10
008B			4	51280306B0	B.H. Tapped Screw B3 x 6
009B	4	4	4	51280308B0	B.H. Tapped Screw B3 x 8
010B	1	1	1	102H303010	Mask
011B	1	1	1	102H303020	Mask
012B	1	1	1	102H063020	Escutcheon, Volume
013B	1	1	1	102H355010	Lens
019B	10	10	10	2127259010	Bushing, Push Button
001i	1	1	1	2137259010	Bushing, Preset Tuning
002i	7	7	7	2137154010	Knob
003i	7	7	7	2137005010	Clamper
004i	7	7	7	2137115010	Spring
005i	1	1	1	2137154020	Knob, Memory
006i	1	1	1	2137005020	Clamper
007i	1	1	1	2137115110	Spring
014i	1	1	1	2137259020	Bushing

REF. DESIG.	Q'TY U	C	E	PART NO.	DESCRIPTION
014B	1	1	1	102H154010	Knob, Volume
015B	3	3	3	102H154020	Knob, Selector
016B	3	3	3	102H154030	Knob, Tone
017B	10	10	10	2127154010	Knob, Push Button
018B	20	20	20	2127115010	Spring
020B	3	3	3	51300308B0	B.H. Tapped Screw B3 x 8
021B	3	3	3	51280308B0	B.H. Tapped Screw B3 x 8
022B	2	2	2	102H118040	Knob, Memory

7.2 [C02-99] TOP COVER

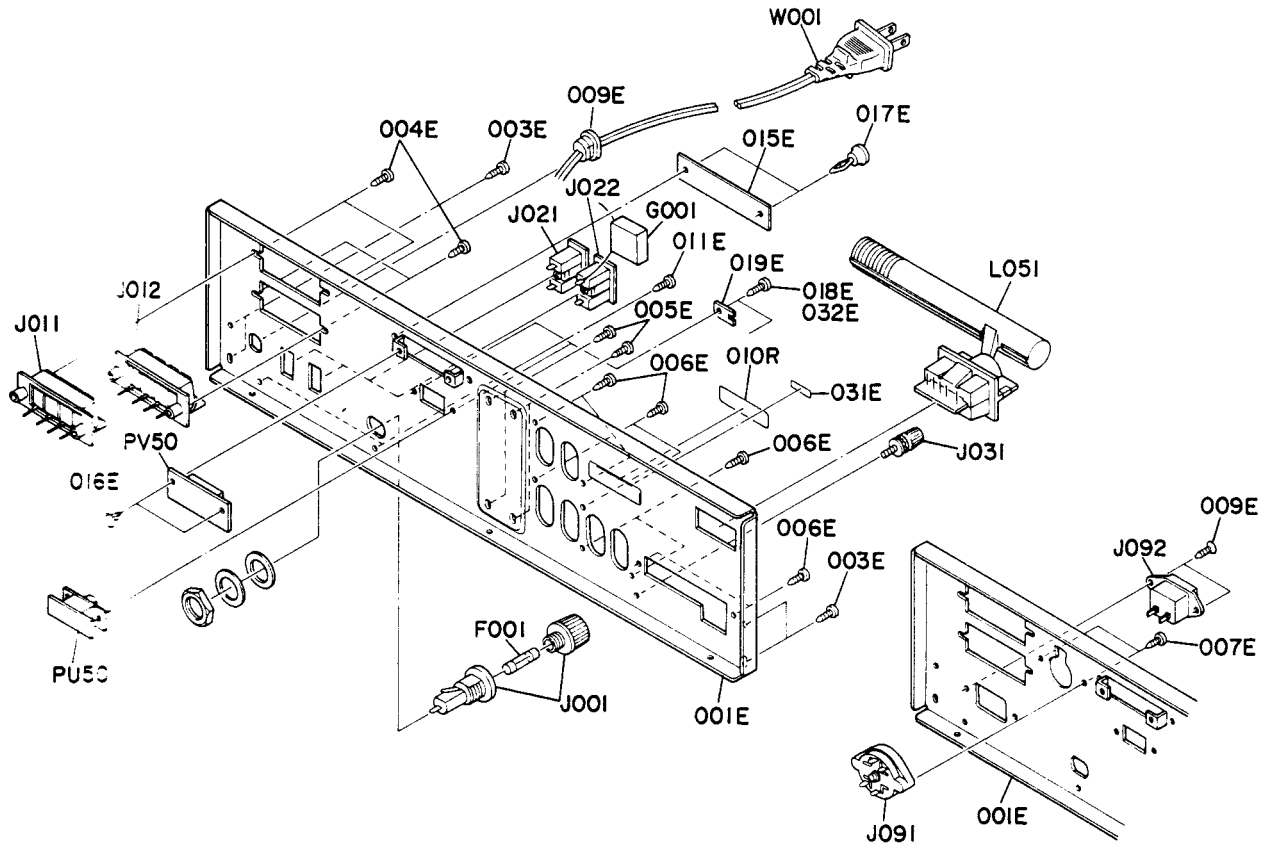


- (U): for U.S.A.
- (C): for Canada
- (E): for Europe

REF. DESIG.	Q'TY U	C	E	PART NO.	DESCRIPTION
002D	4	4	4	3906259010	Bushing
003D	4	4	4	51280414U0	B.H. Tapped Screw B4 x 14
006D	1	1	1	2116257110	Lid, Bottom Cover
007D	12	12	12	51280410U0	B.H. Tapped Screw B4 x 10
010D	4	4	4	2259057010	Leg
011D	1	1	1	102H064500	Case, Wood Cabinet (K)

REF. DESIG.	Q'TY U	C	E	PART NO.	DESCRIPTION
001R	1		1	2578861010	Label
001R		1		2911861110	Label
003R	1		1	2932861010	Label
003R		1		2911861140	Label

7.3 [C03-99] REAR PANEL

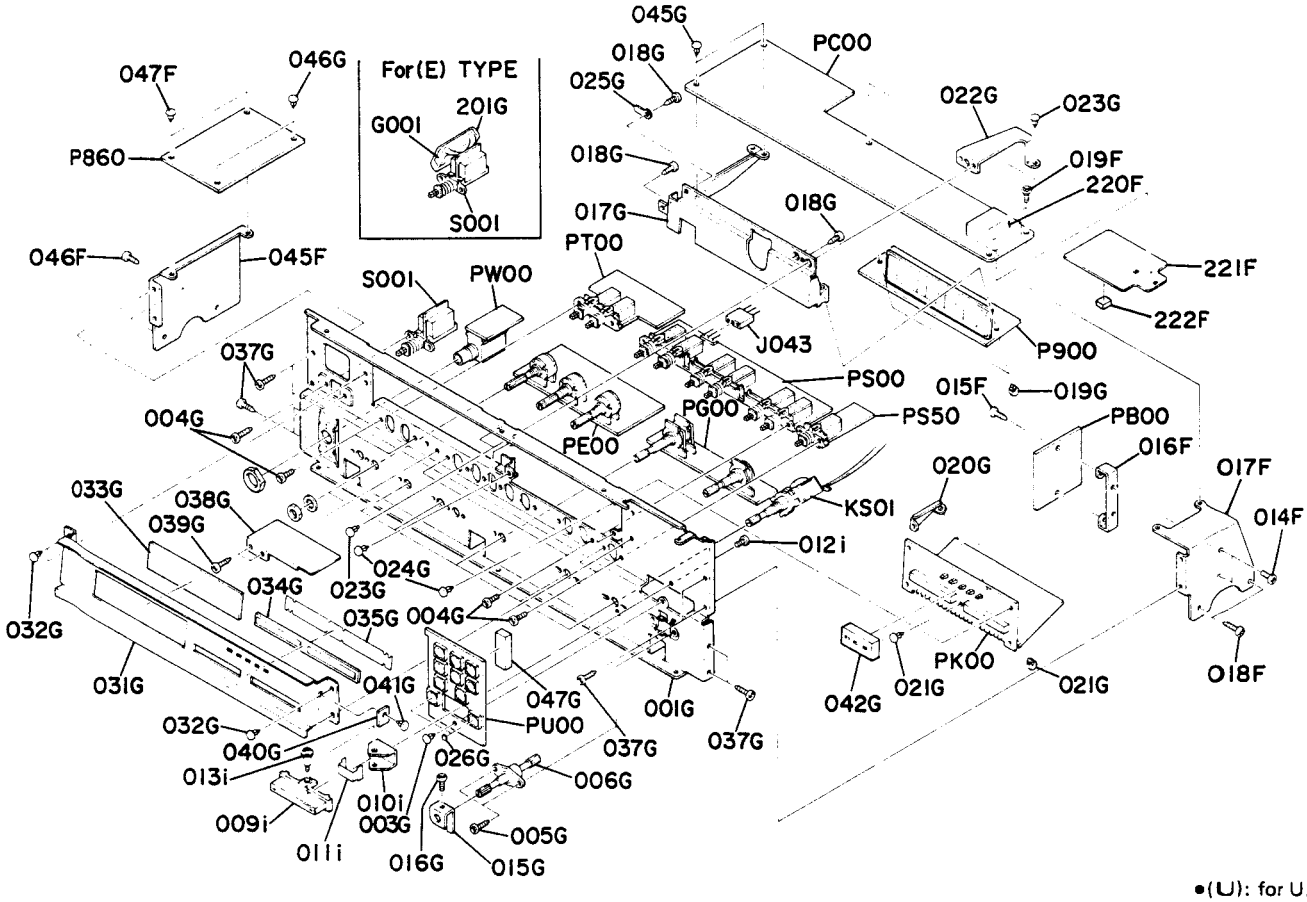


- (U): for U.S.A.
- (C): for Canada
- (E): for Europe

REF. DESIG.	Q'TY U	C	E	PART NO.	DESCRIPTION
001E	1			102H160210	Bracket, Rear Panel
001E		1		102H160220	Bracket, Rear Panel
001E			1	102H160230	Bracket, Rear Panel
003E	4	4	4	51280308U0	B.H. Tapped Screw B3 x 8
004E	4	4	4	51280308U0	B.H. Tapped Screw B3 x 8
005E	4	4	4	51280308U0	B.H. Tapped Screw B3 x 8
006E	8	8	8	51280308U0	B.H. Tapped Screw B3 x 8
007E			2	51280308U0	B.H. Tapped Screw B3 x 8
009E	1	1		1455259030	Bushing
009E			2	51420308T0	O.C.H. Tapped Screw 3 x 8
011E	2	2	2	51280308U0	B.H. Tapped Screw B3 x 8
015E	1	1	1	102H053010	Cover
016E	2	2	2	2276005050	Clamper
017E	2	2	2	102H005010	Clamper
018E	2	2		5110308S9	B.H.M. Screw B3 x 8
019E	1	1	1	2137114010	Stopper
031E			1	4581861010	Label
032E			2	51100308S9	B.H.M. Screw B3 x 8
010R	1	1	1	2112265010	Indicator

REF. DESIG.	Q'TY U	C	E	PART NO.	DESCRIPTION
⚠F001	1			FS10500040	Fuse 5A 250V
⚠F001		1		FS1050006-0	Fuse 5A 250V
⚠F001			1	FS10250800	Fuse 2.5AT 250V
⚠G001	1			BF10400030	Spark Killer
⚠G001		1		BF10400050	Spark Killer
⚠J001	1			YJ08000310	Jack, Fuse Holder
⚠J001		1		YJ08000300	Jack, Fuse Holder
⚠J001			1	YJ08000290	Jack, Fuse Holder
J011	1	1	1	YT03040170	Terminal, Speaker
J012	1	1	1	YT03040170	Terminal, Speaker
⚠J021	1	1		YJ04000560	Jack, AC Outlet
⚠J022	1	1		YJ04000560	Jack, AC Outlet
J031	1	1	1	YL03010250	Terminal, GND
⚠J091			1	BY05080010	Voltage Selector
⚠J092			1	YP04000590	Plug, AC Inlet
L051	1	1	1	LF11200640	Antenna Coil
⚠W001	1	1		YC02000150	A.C. Power Cord

7.4 [P01-99] FRONT CHASSIS AND GENERAL PARTS

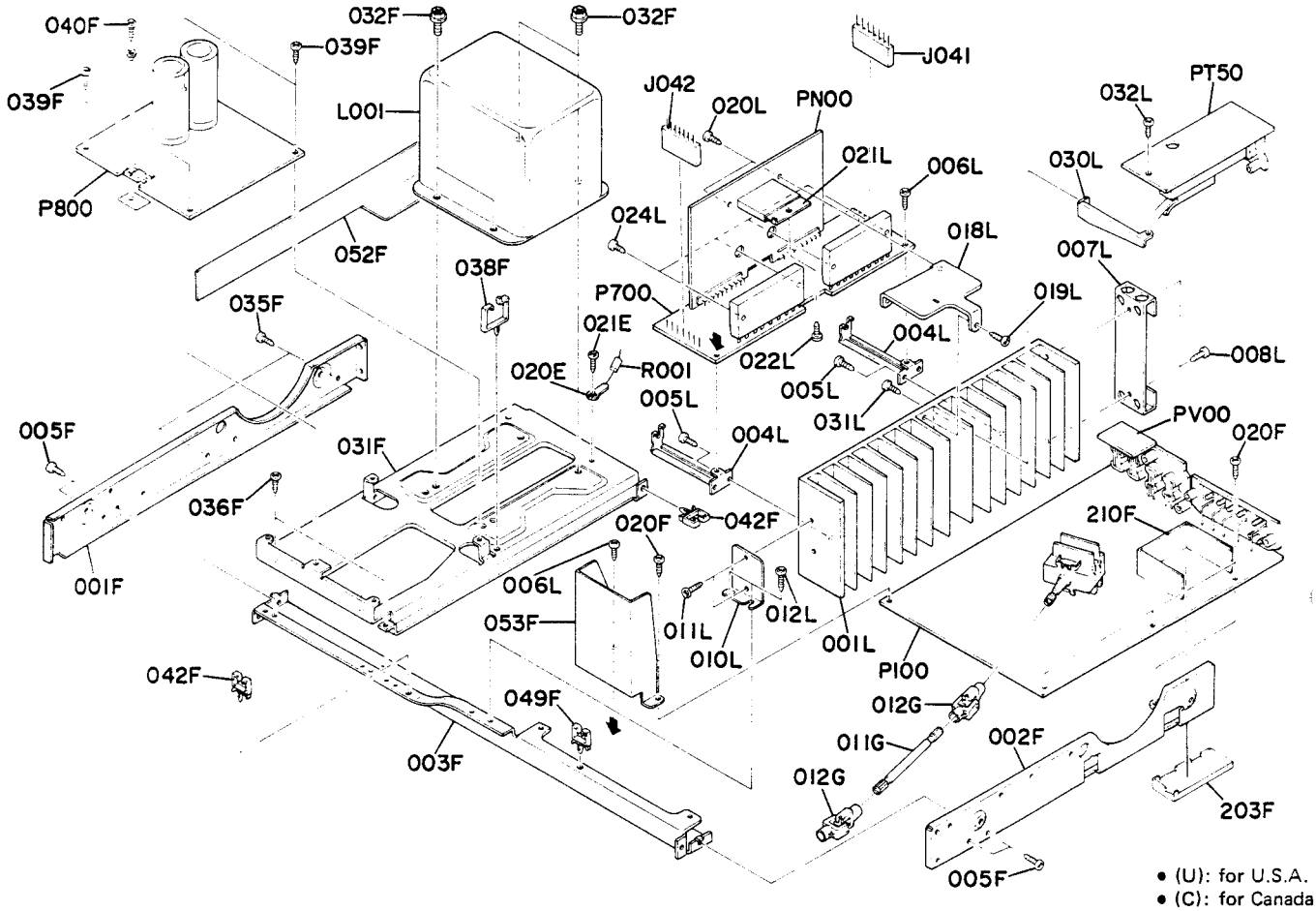


- (U): for U.S.A.
- (C): for Canada
- (E): for Europe

REF. DESIG.	Q'TY U	C	E	PART NO.	DESCRIPTION
014F	2	2	2	51100306A9	B.H.M. Screw B3 x 6
015F	2	2	2	51100306A9	B.H.M. Screw B3 x 6
016F	1	1	1	3889160110	Bracket
017F	1	1	1	102H160050	Bracket
018F	2	2	2	5128030880	B.H. Tapped Screw B3 x 8
019F	2	2	2	51100308A9	B.H.M. Screw B3 x 8
045F	1	1	1	102H160150	Bracket
046F	2	2	2	5128030880	B.H. Tapped Screw B3 x 8
047F	2	2	2	2276005050	Clamper
220F	1	1	1	2137109030	Shield
221F	1	1	1	102H109060	Shield
222F	1	1	1	102H118010	Spacer
001G	1	1	1	102H160010	Bracket, Front Chassis
003G	1	1	1	2276005050	Clamper
004G	8	8	8	51100308A9	B.H.M. Screw B3 x 8
005G	2	2	2	5128030880	B.H. Tapped Screw B3 x 8
006G	1	1	1	102H112500	Shaft
015G	1	1	1	102H114010	Stopper
016G	1	1	1	51064019A9	P.H.M. Screw
017G	1	1	1	102H160060	Bracket
018G	3	3	3	2276005050	Clamper
019G	2	2	2	2276005050	Clamper
020G	1	1	1	102H160080	Bracket
021G	2	2	2	2276005050	Clamper
022G	1	1	1	102H160090	Bracket
023G	3	3	3	2276005050	Clamper
024G	4	4	4	2276005050	Clamper

REF. DESIG.	Q'TY U	C	E	PART NO.	DESCRIPTION
025G	1	1	1	62030049W0	Lug
026G	2	2	2	3653120110	Insulator
031G	1	1	1	102H274010	Reflector
032G	4	4	4	2912259020	Clamper
033G	1	1	1	2137158020	Window
034G	1	1	1	2116355010	Lens
035G	1	1	1	2116303010	Mask
037G	8	8	8	5128030880	B.H. Tapped Screw B3 x 8
038G	1	1	1	102H109090	Shield
039G	2	2	2	5128030880	B.H. Tapped Screw B3 x 8
040G	1	1	1	102H303030	Mask
041G	1	1	1	2912259020	Bushing
042G	1	1	1	102H303040	Mask
045G	2	2	2	2276005050	Clamper
046G	2	2	2	2276005050	Clamper
047G	1	1	1	102H118030	Spacer
201G			1	2219120010	Insulator
009i	1	1	1	2137154030	Knob, Tuning
010i	1	1	1	2137160020	Bracket
011i	1	1	1	2137115020	Spring
012i	1	1	1	51100306A9	B.H.M. Screw B3 x 6
013i	1	1	1	4367112180	Shaft
⚠ S001	1	1		SP01010240	Push Switch, Power
⚠ S001			1	SP02010330	Push Switch, Power
⚠ G001			1	DF17223800	Film Cap. 0.02μF ±20%
J043	1	1	1	YJ06001040	Jack, (3P)
KS01	1	1	1	SR06050200	Rotary Switch (K Mode

7.5 [P02-99] CHASSIS AND OTHER PARTS

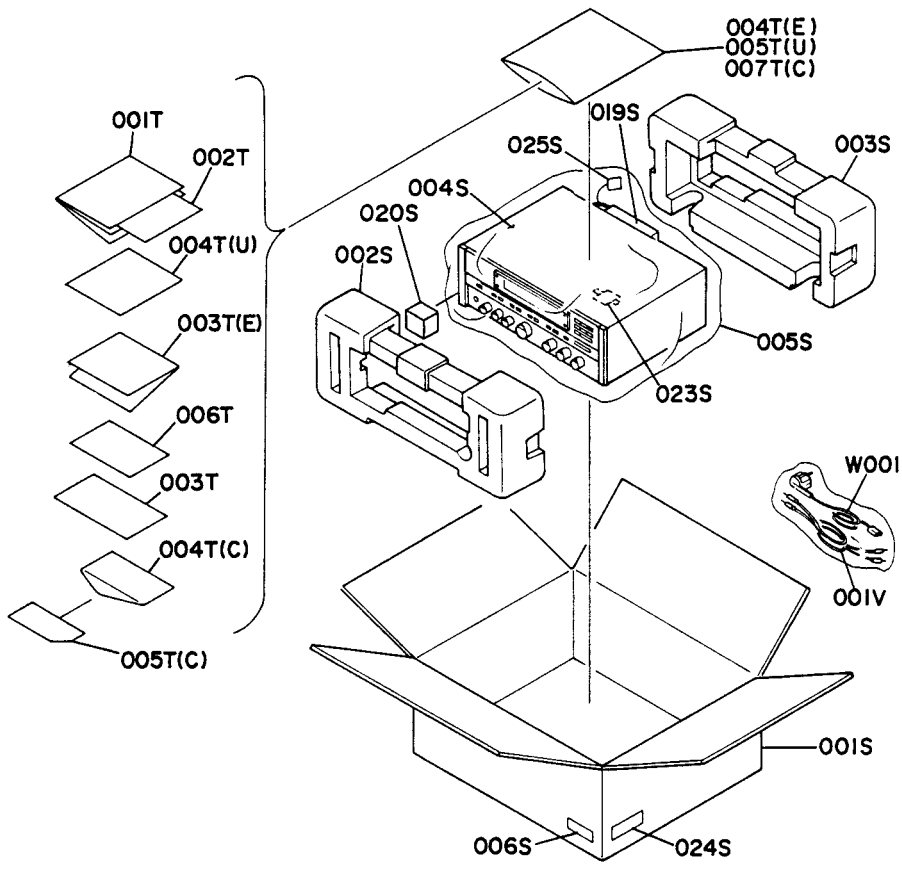


- (U): for U.S.A.
- (C): for Canada
- (E): for Europe

REF. DESIG.	Q'TY U	C	E	PART NO.	DESCRIPTION	
020E	1	1		62030039W0	Lug	
021E	1	1		51280306B0	B.H. Tapped Screw	B3 x 6
001F	1	1	1	2116126010	Stay (L)	
002F	1	1	1	2116126020	Stay (R)	
003F	1	1	1	2116126030	Stay, Center	
005F	4	4	4	5128030880	B.H. Tapped Screw	B3 x 8
020F	4	4	4	5128030880	B.H. Tapped Screw	B3 x 8
031F	1	1	1	2116004010	Table, Transformer	
032F	4	4	4	52040410A0	H. Head Bolt, S.F	H4 x 10
035F	3	3	3	5128030880	B.H. Tapped Screw	B3 x 8
036F	3	3	3	5128030880	B.H. Tapped Screw	B3 x 8
038F	1	1	1	2886005020	Clamper	
039F	4	4	4	51260308B0	Screw	3 x 8
040F	1	1	1	51100308A9	B.H.M. Screw	B3 x 8
042F	2	2	2	2886005020	Clamper	
049F	1	1	1	2886005020	Clamper	
052F	1	1	1	102H118020	Spacer	
053F	1	1	1	102H109080	Shield	
203F	1	1	1	2112109010	Shield	
210F	1	1	1	2137109010	Shield	
011G	1	1	1	102H112020	Shaft	
012G	2	2	2	2258125510	Joint, (K)	

REF. DESIG.	Q'TY U	C	E	PART NO.	DESCRIPTION	
001L	1	1	1	102H267010	Heatsink	
004L	2	2	2	2116160040	Bracket	
005L	2	2	2	5128030880	B.H. Tapped Screw	B3 x 8
006L	2	2	2	5126030880	Screw	3 x 8
007L	1	1	1	2116160070	Bracket	
008L	2	2	2	5128030880	B.H. Tapped Screw	B3 x 8
010L	1	1	1	2276160040	Bracket	
011L	2	2	2	5128030880	B.H. Tapped Screw	B3 x 8
012L	2	2	2	5128030880	B.H. Tapped Screw	B3 x 8
018L	1	1	1	2116267020	Heatsink	
019L	1	1	1	5128031080	B.H. Tapped Screw	B3 x 10
020L	2	2	2	5126030880	Screw	3 x 8
021L	1	1	1	2116115010	Spring	
022L	1	1	1	5128030880	B.H. Tapped Screw	B3 x 8
024L	4	4	4	5178031680	Screw	3 x 16
030L	1	1	1	102H160110	Bracket	
031L	1	1	1	5128031080	B.H. Tapped Screw	B3 x 10
032L	1	1	1	5128030880	B.H. Tapped Screw	B3 x 8
⚠L001	1			TS18505010	Power Transformer	
⚠L001		1		TS18505020	Power Transformer	
⚠L001			1	TS19611010	Power Transformer	
R001	1	1		RC10225120	Resistor 2.2MΩ ±10%	½W
J041	1	1	1	YJ06001260	Jack, (7P)	
J042	1	1	1	YJ06001260	Jack, (7P)	

7.6 [H01-99] PACKING MATERIALS



- (U): for U.S.A.
- (C): for Canada
- (E): for Europe

REF. DESIG.	Q'TY U	C	E	PART NO.	DESCRIPTION
001T	1			102H851010	Instructions
001T		1	1	102H851310	Instructions
002T	1			102H851020	Instructions
002T		1		102H851220	Instructions
002T			1	102H851320	Instructions
003T	1			2818854020	Guarantee Card
003T		1		2818854030	Guarantee Card
003T			1	102H856010	Circuit Diagram
004T	1			2225813010	Envelope
004T		1		2918813010	Envelope
004T			1	9013025010	Polyethy Bag
005T	1			9013025010	Polyethy Bag
005T		1		9630000180	Guarantee Card
006T		1		9650000050	S. Station Card
007T		1		9013025010	Polyethy Bag

REF. DESIG.	Q'TY U	C	E	PART NO.	DESCRIPTION
001S	1	1		102H801010	Packing Case
001S			1	102H801020	Packing Case
002S	1	1	1	2112809010	Cushion
003S	1	1	1	2112809020	Cushion
004S	1	1	1	2918107260	Sheet
005S	1	1	1	9090909040	Polyethy Sheet
006S	3			9526019010	Serial No. Card
006S		3		9526019020	Serial No. Card
006S			3	9526019060	Serial No. Card
019S	1	1	1	2864804010	Sleeve
020S	1	1	1	102H809010	Cushion
023S			1	2731821010	Silicagel
024S		2		9510901020	Label
025S			1	9560000040	Hang Tag
⚠W001			1	ZC01805020	A.C. Power Cord
001V	1	1	1	ZA02000070	EXT. Antenna

7.7 ELECTRICAL PARTS

- (U): for U.S.A.
- (C): for Canada
- (E): for Europe

REF. DESIG.	Q'TY U	Q'TY C	Q'TY E	PART NO.	DESCRIPTION
					P100-TUNER/PHONO AMP. CIRCUIT BOARD
P100	1	1	1	YK102H1410	P.W. Board, Tuner/Phono Amp.
	1	1		ZZ102H1410	P.W. Board Assembly
			1	ZZ102H8410	P.W. Board Assembly
					P100-CAPACITORS
CA01	1	1	1	DA17103010	Ceramic 0.01μF ±20%
CA02	1	1	1	DF65471090	Film 470pF ±5%
CA03	1	1	1	DD15150360	Ceramic 15pF ±5%
CA04	1	1	1	DA17103010	Ceramic 0.01μF ±20%
CA05	1	1	1	DA17103010	Ceramic 0.01μF ±20%
CA06	1	1	1	DD15470370	Ceramic 47pF ±5%
CA07	1	1	1	DA17103010	Ceramic 0.01μF ±20%
CA08	1	1	1	EA10701630	Elect 100μF 16V
CA09	1	1	1	DK18403320	Ceramic 0.04μF +80% −20%
CA10	1	1	1	DK17103300	Ceramic 0.01μF ±20%
CA11	1	1	1	DA17103010	Ceramic 0.01μF ±20%
CA12	1	1	1	EA10602530	Elect 10μF 25V
CA13	1	1	1	EA10602530	Elect 10μF 25V
CA14	1	1	1	DA17103010	Ceramic 0.01μF ±20%
CA15	1	1	1	DA17103010	Ceramic 0.01μF ±20%
CA16	1	1	1	EA22405030	Elect 0.22μF 50V
CA17	1	1	1	EA10505030	Elect 1μF 50V
CA18	1	1	1	DK18223310	Ceramic 0.022μF +80% −20%
CA19	1	1	1	EA47405030	Elect 0.47μF 50V
CA20	1	1	1	EA22601630	Elect 22μF 16V
CA30	1	1	1	DA17103010	Ceramic 0.01μF ±20%
CA35	1	1	1	CT12000090	Trimming 20pF
CA37	1	1	1	DA17103010	Ceramic 0.01μF ±20%
CA39	1	1	1	DA15470010	Ceramic 47pF ±5%
CA40	1	1	1	DK17103300	Ceramic 0.01μF ±20%
CA43	1	1	1	DD15470370	Ceramic 47pF ±5%
CA44	1	1	1	DA17103010	Ceramic 0.01μF ±20%
CA45	1	1	1	DD15470370	Ceramic 47pF ±5%
CA46	1	1	1	DA17103010	Ceramic 0.01μF ±20%
CA47	1	1	1	EA10505030	Elect 1μF 50V
CA49	1	1	1	CT10600090	Trimming 5pF
CA50	1	1	1	DD10050320	Ceramic 5pF ±0.25pF
CA51	1	1	1	DA17103010	Ceramic 0.01μF ±20%
C101	1	1	1	DD10030300	Ceramic 3pF ±0.25pF
C103	1	1	1	DA17103010	Ceramic 0.01μF ±20%
C104	1	1	1	DA17103010	Ceramic 0.01μF ±20%
C106	1	1	1	DD10030370	Ceramic 3pF ±0.25pF
C107	1	1	1	DD11100370	Ceramic 10pF ±0.5pF
C108	1	1	1	DK16331300	Ceramic 330pF ±10%
C109	1	1	1	DA17103010	Ceramic 0.01μF ±20%
C112	1	1	1	DD10015370	Ceramic 1.5pF ±0.25pF
C113	1	1	1	DD10030300	Ceramic 3pF ±0.25pF
C114	1	1	1	DD11100300	Ceramic 10pF ±0.5pF
C115	1	1	1	DD15300300	Ceramic 30pF ±5%
C116	1	1	1	DD15150300	Ceramic 15pF ±5%
C117	1	1	1	DA17103010	Ceramic 0.01μF ±20%
C118	1	1	1	DA17103010	Ceramic 0.01μF ±20%
C119	1	1	1	DA17103010	Ceramic 0.01μF ±20%
C120	1	1	1	DA17103010	Ceramic 0.01μF ±20%
C121	1	1	1	DA17103010	Ceramic 0.01μF ±20%
C122	1	1	1	DK18403320	Ceramic 0.04μF +80% −20%
C123	1	1	1	DK18403320	Ceramic 0.04μF +80% −20%
C125	1	1	1	DA16331010	Ceramic 330pF ±10%
C126	1	1	1	DK18403320	Ceramic 0.04μF +80% −20%
C127	1	1	1	EA47405090	Elect 0.47μF 50V
C128	1	1	1	DK18403320	Ceramic 0.04μF +80% −20%
C129	1	1	1	EA10701630	Elect 100μF 16V

REF. DESIG.	Q'TY U	Q'TY C	Q'TY E	PART NO.	DESCRIPTION
C130	1	1	1	DK18403320	Ceramic 0.04μF +80% −20%
C131	1	1	1	DK18403320	Ceramic 0.04μF +80% −20%
C132	1	1	1	DK18403320	Ceramic 0.04μF +80% −20%
C133	1	1	1	DK18403320	Ceramic 0.04μF +80% −20%
C134	1	1	1	EA47405030	Elect 0.47μF 50V
C136	1	1	1	DK18403320	Ceramic 0.04μF +80% −20%
C137	1	1	1	DK18104010	Ceramic 0.1μF +80% −20%
C138	1	1	1	DK18403320	Ceramic 0.04μF +80% −20%
C150	1	1	1	DD15470370	Ceramic 47pF ±5%
C151	1	1	1	DD10070300	Ceramic 7pF ±0.25pF
C152	1	1	1	DD10070300	Ceramic 7pF ±0.25pF
C153	1	1	1	DF17333300	Film 0.033μF ±20%
C154	1	1	1	DD10020300	Ceramic 2pF ±0.25pF
C155	1	1	1	DK16102300	Ceramic 1000pF ±10%
C156	1	1	1	CT10600090	Trimming 5pF
C157	1	1	1	CT10600090	Trimming 5pF
C158	1	1	1	CT10600090	Trimming 5pF
C159	1	1	1	CT10600090	Trimming 5pF
C160	1	1	1	EA10701630	Elect 100μF 16V
C301	1	1	1	EA47505030	Elect 4.7μF 50V
C302	1	1	1	DF65501010	Film 500pF ±5%
C303	1	1	1	DF15473300	Film 0.047μF ±5%
C304	1	1	1	EQ10505010	Elect 1μF 50V
C305	1	1	1	EV68501060	Elect 6.8μF 10V
C306	1	1	1	DF65821010	Film 820pF ±5%
C307	1	1	1	EQ10505010	Elect 1μF 50V
C308	1	1	1	EA10505030	Elect 1μF 50V
C309	1	1	1	EA33701630	Elect 330μF 16V
C310	1	1	1	EA10701630	Elect 100μF 16V
C311	1	1	1	EA10505030	Elect 1μF 50V
C312	1	1	1	EA10505030	Elect 1μF 50V
C313			1	DF15222300	Film 2200μF ±5%
C313	1	1		DF15332300	Film 3300μF ±5%
C314			1	DF15222300	Film 2200μF ±5%
C314	1	1		DF15332300	Film 3300μF ±5%
C315	1	1	1	EA10405030	Elect 0.1μF 50V
C316	1	1	1	EA10405030	Elect 0.1μF 50V
C317	1	1	1	DA15101010	Ceramic 100pF ±5%
C318	1	1	1	DA15101010	Ceramic 100pF ±5%
C319	1	1	1	EA47505030	Elect 4.7μF 50V
C320	1	1	1	EA47505030	Elect 4.7μF 50V
C321	1	1	1	DF17104300	Film 0.1μF ±20%
C322	1	1	1	EA22601630	Elect 22μF 16V
C323	1	1	1	EA47503530	Elect 4.7μF 35V
C324	1	1	1	EA10602530	Elect 10μF 25V
C325	1	1	1	DK18403320	Ceramic 0.04μF +80% −20%
C401	1	1	1	EE33502540	Elect 3.3μF 25V
C402	1	1	1	EE33502540	Elect 3.3μF 25V
C403	1	1	1	DA16221010	Ceramic 220pF ±10%
C404	1	1	1	DA16221010	Ceramic 220pF ±10%
C405	1	1	1	EA47601030	Elect 47μF 10V
C406	1	1	1	EA47601030	Elect 47μF 10V
C407	1	1	1	DA15101010	Ceramic 100pF ±5%
C408	1	1	1	DA15101010	Ceramic 100pF ±5%
C409	1	1	1	DF15182300	Film 1800pF ±5%
C410	1	1	1	DF15182300	Film 1800pF ±5%
C411	1	1	1	DF15682300	Film 6800pF ±5%
C412	1	1	1	DF15682300	Film 6800pF ±5%
C413	1	1	1	DA15100010	Ceramic 10pF ±5%
C414	1	1	1	DA15100010	Ceramic 10pF ±5%
C415	1	1	1	EA47505030	Elect 4.7μF 50V
C416	1	1	1	EA47505030	Elect 4.7μF 50V
C417	1	1	1	DK17103300	Ceramic 0.01μF ±20%
C418	1	1	1	DK17103300	Ceramic 0.01μF ±20%
C419	1	1	1	DK16101300	Ceramic 100pF ±10%
C420	1	1	1	DK16101300	Ceramic 100pF ±10%
C421	1	1	1	DK18403320	Ceramic 0.04μF +80% −20%
C422	1	1	1	DK17103300	Ceramic 0.01μF ±20%

- (U): for U.S.A.
- (C): for Canada
- (E): for Europe

REF. DESIG.	Q'TY U	C	E	PART NO.	DESCRIPTION
					P100-RESISTORS
					(All Resistors are ±5% and ¼W)
RA01	1	1	1	GD05152140	1.5KΩ
RA02	1	1	1	GD05222140	2.2KΩ
RA03	1	1	1	GG05101140	100Ω
RA04	1	1		GD05273140	27KΩ
RA04			1	GD05223140	22KΩ
RA05	1	1	1	GD05563140	56KΩ
RA06	1	1	1	GD05333140	33KΩ
RA07	1	1	1	GD05102140	1KΩ
RA08	1	1	1	GD05222140	2.2KΩ
RA09	1	1	1	GD05103140	10KΩ
RA10	1	1	1	GD05103140	10KΩ
RA12	1	1	1	GD05223140	22KΩ
RA13	1	1	1	GD05103140	10KΩ
RA14	1	1	1	GD05103140	10KΩ
RA15	1	1	1	GD05223140	22KΩ
RA17	1	1	1	GD05473140	47KΩ
RA20	1	1	1	GD05393140	39KΩ
RA22	1	1	1	GD05102140	1KΩ
RA23	1	1	1	GD05104140	100KΩ
RA24	1	1	1	GD05474140	470KΩ
RA25	1	1	1	GD05472140	4.7KΩ
RA27	1	1	1	GD05274140	270KΩ
RA28	1	1	1	GD05222140	2.2KΩ
RA29	1	1	1	GD05103140	10KΩ
RA30	1	1	1	GD05683140	68KΩ
RA31	1	1	1	GD05472140	4.7KΩ
RA33	1	1	1	GD05332140	3.3KΩ
RA34	1	1	1	RA05030090	50KΩ(B) Trimming
RA36	1	1	1	GD05102140	1KΩ
RA37	1	1	1	GD05151140	150Ω
R101	1	1	1	GD05105140	1MΩ
R103	1	1	1	GD05220140	22Ω
R104	1	1	1	GG05101140	100Ω
R105	1	1	1	GD05104140	100KΩ
R106	1	1	1	GD05223140	22KΩ
R107	1	1	1	GD05472140	4.7KΩ
R108	1	1	1	GD05332140	3.3KΩ
R110	1	1	1	GG05101140	100Ω
R111	1	1	1	GD05103140	10KΩ
R112	1	1	1	GD05103140	10KΩ
R113	1	1	1	GD05272140	2.7KΩ
R114	1	1	1	GD05331140	330Ω
R115	1	1	1	GD05153140	15KΩ
R116	1	1	1	GD05272140	2.7KΩ
R117	1	1	1	GD05331140	330Ω
R118	1	1	1	GD05102140	1KΩ
R119	1	1	1	GG05101140	100Ω
R120	1	1	1	GD05331140	330Ω
R121	1	1	1	75061001P0	Jumper
R122	1	1	1	GD05123140	12KΩ
R124	1	1	1	GD05223140	22KΩ
R125	1	1	1	GD05183140	18KΩ
R126	1	1	1	GD05332140	3.3KΩ
R127	1	1	1	GD05222140	2.2KΩ
R128	1	1	1	GD05103140	10KΩ
R129	1	1	1	GD05473140	47KΩ
R130	1	1	1	GD05821140	820Ω
R131	1	1	1	RA01030260	10KΩ(B) Trim. Muting Level
R132	1	1	1	GD05105140	1MΩ
R133	1	1	1	GD05331140	330Ω

REF. DESIG.	Q'TY U	C	E	PART NO.	DESCRIPTION
R134	1	1	1	GD05102140	1KΩ
R140	1	1	1	GG05470140	47Ω
R150	1	1	1	GD05104140	100KΩ
R151	1	1	1	GD05104140	100KΩ
R152	1	1	1	GD05104140	100KΩ
R153	1	1	1	GD05104140	100KΩ
R154	1	1	1	GD05104140	100KΩ
R155	1	1	1	GD05223140	22KΩ
R156	1	1	1	GD05331140	330Ω
R157	1	1	1	GD05104140	100KΩ
R301	1	1	1	GD05224140	220KΩ
R302	1	1	1	RA04720080	4.7KΩ(B) Trim. V.C.O. Adj.
R303	1	1	1	GD05153140	15KΩ
R304	1	1	1	GD05821140	820Ω
R305	1	1	1	GD05102140	1KΩ
R306	1	1	1	RA05020160	5KΩ(B) Trim. Pilot Cancel
R308	1	1	1	GD05103140	10KΩ
R309	1	1	1	GD05473140	47KΩ
R310	1	1	1	GD05102140	1KΩ
R311	1	1	1	GD05473140	47KΩ
R312	1	1	1	GG05470140	47Ω
R313	1	1	1	GD05472140	4.7KΩ
R314	1	1	1	GD05472140	4.7KΩ
R315	1	1	1	GD05472140	4.7KΩ
R316	1	1	1	GD05472140	4.7KΩ
R317	1	1	1	GD05273140	27KΩ
R318	1	1	1	GD05273140	27KΩ
R319	1	1	1	GD05224140	220KΩ
R320	1	1	1	GD05224140	220KΩ
R321	1	1	1	GD05155140	1.5MΩ
R322	1	1	1	GD05155140	1.5MΩ
R323	1	1		GD05184140	180KΩ
R323			1	GD05154140	150KΩ
R324	1	1		GD05184140	180KΩ
R324			1	GD05154140	150KΩ
R325	1	1	1	GD05102140	1KΩ
R326	1	1	1	RA01030260	10KΩ(B)Trim. Separation Adj.
R327	1	1	1	GD05103140	10KΩ
R328	1	1	1	GD05103140	10KΩ
R329	1	1	1	GD05471140	470Ω
R330	1	1	1	GD05471140	470Ω
R331	1	1		GD05472140	4.7KΩ
R331			1	GD05682140	6.8KΩ
R332	1	1		GD05472140	4.7KΩ
R332			1	GD05682140	6.8KΩ
R333	1	1	1	GD05473140	47KΩ
R334	1	1	1	GD05473140	47KΩ
R335	1	1	1	GD05471140	470Ω
R336	1	1	1	GD05471140	470Ω
R337	1	1	1	GD05101140	100Ω
R338	1	1	1	GD05123140	12KΩ
R341	1	1	1	GD05104140	100KΩ
R342	1	1	1	GD05222140	2.2KΩ
R343	1	1	1	GD05222140	2.2KΩ
R344	1	1	1	GD05102140	1KΩ
R345	1	1	1	GD05102140	1KΩ
R346	1	1	1	GD05223140	22KΩ
R347	1	1	1	GD05222140	2.2KΩ
R348	1	1	1	GD05472140	4.7KΩ
R349	1	1	1	GD05473140	47KΩ
R351	1	1	1	GD05154140	150KΩ
R352	1	1	1	GD05333140	33KΩ
R401	1	1	1	GD05823140	82KΩ
R402	1	1	1	GD05823140	82KΩ
R403	1	1	1	GD05222140	2.2KΩ

• (U): for U.S.A.
• (C): for Canada
• (E): for Europe

REF. DESIG.	Q'TY U	C	E	PART NO.	DESCRIPTION
R404	1	1	1	GD05222140	2.2KΩ
R405	1	1	1	GD05104140	100KΩ
R406	1	1	1	GD05104140	100KΩ
R407	1	1	1	GD05331140	330Ω
R408	1	1	1	GD05331140	330Ω
R409	1	1	1	GD05471140	470Ω
R410	1	1	1	GD05471140	470Ω
R411	1	1	1	GD05393140	39KΩ
R412	1	1	1	GD05393140	39KΩ
R413	1	1	1	GD05474140	470KΩ
R414	1	1	1	GD05474140	470KΩ
R415	1	1	1	GD05102140	1KΩ
R416	1	1	1	GD05102140	1KΩ
R417	1	1	1	GD05221140	220Ω
R418	1	1	1	GD05221140	220Ω
R419	1	1	1	GD05104140	100KΩ
R420	1	1	1	GD05104140	100KΩ
R421	1	1	1	GD05330140	33Ω
R422	1	1	1	GD05330140	33Ω
					P100-SEMICONDUCTORS
QA01	1	1	1	HC10025060	IC μPC1178C
QA03	1	1	1	HD20011050	Diode 1S1555
QA04	1	1	1	HT309452C0	Transistor 2SC945(K or P)
QA05	1	1	1	HD20011050	Diode 1S1555
QA10	1	1	1	HV00006120	Varistor MV-203
QA11	1	1	1	HD10001050	Diode 1N60
QA12	1	1	1	HD10001050	Diode 1N60
QA14	1	1	1	HD40002420	Varicap KV-1226
QA16	1	1	1	HT310471C0	Transistor 2SC1047(C)
QA17	1	1	1	HT310471C0	Transistor 2SC1047(C)
QA18	1	1	1	HT309452C0	Transistor 2SC945(K or P)
Q101	1	1	1	HF400451B0	I.F.T. 3SK45(B)
Q102	1	1	1	HT310471C0	Transistor 2SC1047(C)
Q103	1	1	1	HT308291C0	Transistor 2SC829(C)
Q104	1	1	1	HT310471C0	Transistor 2SC1047(C)
Q105	1	1	1	HC10033010	IC HA11225
Q106	1	1	1	HD20011050	Diode 1S1555
Q110	1	1	1	HD40004010	Varicap 1SV55
Q111	1	1	1	HD40004010	Varicap 1SV55
Q112	1	1	1	HD40004010	Varicap 1SV55
Q113	1	1	1	HD40004010	Varicap 1SV55
Q114	1	1	1	HF200191A0	F.E.T. 2SK19(Y)
Q301	1	1	1	HC10001420	IC KB4437
Q302	1	1	1	HT309452C0	Transistor 2SC945(K or P)
Q303	1	1	1	HT309452C0	Transistor 2SC945(K or P)
Q304	1	1	1	HT309452C0	Transistor 2SC945(K or P)
Q305	1	1	1	HT326342B0	Transistor 2SC2634(S or T)
Q306	1	1	1	HT326342B0	Transistor 2SC2634(S or T)
Q307	1	1	1	HT111272B0	Transistor 2SA1127(S or T)
Q308	1	1	1	HT111272B0	Transistor 2SA1127(S or T)
Q309	1	1	1	HT309452B0	Transistor 2SC945(P or Q)
Q311	1	1	1	HD20011050	Diode 1S1555
Q312	1	1	1	HD20011050	Diode 1S1555
Q320	1	1	1	HD20011050	Diode 1S1555
Q321	1	1	1	HD20011050	Diode 1S1555
Q322	1	1	1	HD20011050	Diode 1S1555
Q323	1	1	1	HD20011050	Diode 1S1555
Q324	1	1	1	HD20011050	Diode 1S1555
Q325	1	1	1	HD20011050	Diode 1S1555
Q326	1	1	1	HD20011050	Diode 1S1555
Q401	1	1	1	HC10034010	IC HA1457W
Q402	1	1	1	HC10034010	IC HA1457W

REF. DESIG.	Q'TY U	C	E	PART NO.	DESCRIPTION
					P100-MISCELLANEOUS
FA01	1	1	1	FG450302B0	Ceramic Filter, AM SFZ450B-3
FA02	1	1	1	FG450302A0	Ceramic Filter, AM SFZ450A-3
F101	1	1	1	FF11070530	Ceramic Filter, SFE10.7MD-1
F102	1	1		FF11070530	Ceramic Filter, SFE10.7MD-1
F102			1	FF11070570	Ceramic Filter, SFE10.7MS3G
F103	1	1		FF11070530	Ceramic Filter, SFE10.7MD-1
F103			1	FF11070570	Ceramic Filter, SFE10.7MS3G
JV01	1	1	1	YT02040260	Terminal, Input
J101	1	1	1	YT01050010	Terminal, Antenna
LA01	1	1	1	LO10010480	OSC Coil, AM
LA02	1	1	1	LI10010730	I.F.T. Coil, AM
LA03	1	1	1	LI10010740	I.F.T. Coil, AM
L101	1	1	1	LA12026190	Ant. Coil, FM
L104	1	1	1	LC17510010	Choke Coil, 0.75μH
L105	1	1	1	LI10016010	I.F.T. Coil, FM
L106	1	1	1	LO12046030	OSC Coil, FM
L107	1	1	1	LC13320050	Choke Coil, 3.3μH
L109	1	1	1	LI14030010	I.F.T. Coil, FM Det
L120	1	1	1	LA12026200	Ant. Coil, FM RF
L121	1	1	1	LA12026210	Ant. Coil, FM RF
L301	1	1	1	LS20010020	M.P.X. Coil, 38kHz
SV01	1	1	1	SR06040170	Rotary Switch, Selector
					P700-POWER AMP. CIRCUIT BOARD
P700	1	1	1	YK21161810	P.W. Board, Power Amp.
	1	1	1	ZZ21161810	P.W. Board Assembly
					P700-CAPACITORS
C701	1	1	1	EA47706310	Elect 470μF 63V
C702	1	1	1	EA47706310	Elect 470μF 63V
C703	1	1	1	EA47706310	Elect 470μF 63V
C704	1	1	1	EA47706310	Elect 470μF 63V
C705	1	1	1	DF17473520	Film 0.047μF ±20%
C706	1	1	1	DF17473520	Film 0.047μF ±20%
C709	1	1	1	DF16473300	Film 0.047μF ±20%
C710	1	1	1	DF16473300	Film 0.047μF ±20%
C711	1	1	1	EA47601030	Elect 47μF 10V
C712	1	1	1	EA10701630	Elect 100μF 16V
C713	1	1	1	DD16470500	Ceramic 47pF ±10%
C714	1	1	1	DD16470500	Ceramic 47pF ±10%
C715	1	1	1	DD16470500	Ceramic 47pF ±10%
C716	1	1	1	DD16470500	Ceramic 47pF ±10%
					P700-RESISTORS
⚠R701	1	1	1	GO10332050	0.33Ω 5W
⚠R702	1	1	1	GO10332050	0.33Ω 5W
⚠R703	1	1	1	GO10332050	0.33Ω 5W
⚠R704	1	1	1	GO10332050	0.33Ω 5W
R705	1	1	1	RC10022120	2.2Ω ½W
R706	1	1	1	RC10022120	2.2Ω ½W
R707	1	1	1	GA05330030	33Ω ±5% 3W
R708	1	1	1	GA05330030	33Ω ±5% 3W
R709	1	1	1	GA05562010	5.6KΩ ±5% 1W
R710	1	1	1	GA05562010	5.6KΩ ±5% 1W

- (U): for U.S.A.
- (C): for Canada
- (E): for Europe

REF. DESIG.	Q'TY U	C	E	PART NO.	DESCRIPTION
R711	1	1	1	GD05223140	22KΩ ±5% ¼W
R712	1	1	1	GD05153140	15KΩ ±5% ¼W
R713	1	1	1	GD05562140	5.6KΩ ±5% ¼W
R714	1	1	1	GD05154140	150KΩ ±5% ¼W
R715	1	1	1	GD05393140	39KΩ ±5% ¼W
R716	1	1	1	GG05100140	10Ω ±5% ¼W
R717	1	1	1	GD05333140	33KΩ ±5% ¼W
					P700-SEMICONDUCTORS
⚠ Q701	1	1	1	HC10033030	IC STK-0080 Mark2
⚠ Q702	1	1	1	HC10033030	IC STK-0080 Mark2
Q703	1	1	1	HD20005010	Diode W06B
Q704	1	1	1	HD20005010	Diode W06B
Q705	1	1	1	HD20005010	Diode W06B
Q706	1	1	1	HD20005010	Diode W06B
Q707	1	1	1	HD20003210	Diode 1S2471
Q708	1	1	1	HD20011050	Diode 1S1555
Q709	1	1	1	HT314001E0	Transistor 2SC1400(E)
Q710	1	1	1	HT314001E0	Transistor 2SC1400(E)
Q711	1	1	1	HT405712B0	Transistor 2SD571(L or K)
					P700-MISCELLANEOUS
J701	1	1	1	YP06001060	Plug, (9P)
J702	1	1	1	YP06001060	Plug, (9P)
JN01	1	1	1	YP06000600	Plug (9P)
JN02	1	1	1	YP06000600	Plug (9P)
L701	1	1	1	LL23915120	Coil
L702	1	1	1	LL23915120	Coil
⚠ L703	1	1	1	LY20240140	Relay, 3A MU2U 24V
					P800-POWER SUPPLY CIRCUIT BOARD
P800	1	1	1	YK21161880	P.W. Board, Power Supply
	1			ZZ21163880	P.W. Board Assembly
		1		ZZ21162880	P.W. Board Assembly
			1	ZZ21168880	P.W. Board Assembly
					P800-CAPACITORS
⚠ C801	1	1	1	EB10906310	Elect 10000μF 56V
⚠ C802	1	1	1	EB10906310	Elect 10000μF 56V
C803	1	1	1	DK18103510	Ceramic 0.01μF
C804	1	1	1	DK18103510	Ceramic 0.01μF
⚠ C805	1	1	1	EA47705090	Elect 470μF 50V
C806	1	1	1	EA10705090	Elect 100μF 50V
C807	1	1	1	EA10605030	Elect 10μF 50V
C808	1	1	1	EA10605030	Elect 10μF 50V
C809	1	1	1	EA33505030	Elect 3.3μF 50V
C810	1	1	1	EA33505030	Elect 3.3μF 50V
C811	1	1	1	DK18403320	Ceramic 0.04μF
C812	1	1	1	DK18403320	Ceramic 0.04μF
C813	1	1	1	EA10701630	Elect 100μF 16V
C814	1	1	1	EA33505030	Elect 3.3μF 50V
C815	1	1	1	EA33505030	Elect 3.3μF 50V
C816	1	1	1	EA10602530	Elect 10μF 25V
C817	1	1	1	EA10701630	Elect 100μF 16V
C818	1	1	1	EA10703590	Elect 100μF 35V
⚠ C819	1	1	1	EA10701630	Elect 100μF 16V
C820	1	1	1	EA22602530	Elect 22μF 25V
C821	1	1	1	EA22602530	Elect 22μF 25V
⚠ C822	1	1	1	EA22605030	Elect 22μF 50V

REF. DESIG.	Q'TY U	C	E	PART NO.	DESCRIPTION
					P800-RESISTORS (All Resistors are ±5% and ¼W)
⚠ R801	1		1	RF05100120	10Ω ½W, Fusible
⚠ R802	1		1	RF05100120	10Ω ½W, Fusible
⚠ R803	1	1	1	GA05560020	56Ω 2W
R804	1	1	1	GD05103140	10KΩ
R805	1	1	1	GD05103140	10KΩ
R806	1	1	1	GD05472140	4.7KΩ
R807	1	1	1	GD05472140	4.7KΩ
R808	1	1	1	GD05472140	4.7KΩ
R809	1	1	1	GD05472140	4.7KΩ
R810	1	1	1	GD05182140	1.8KΩ
R811	1	1	1	GD05223140	22KΩ
R812	1	1	1	GD05332140	3.3KΩ
R813	1	1	1	GD05562140	5.6KΩ
R814	1	1	1	GD05102140	1KΩ
R815	1	1	1	GD05474140	470KΩ
R816	1	1	1	GD05223140	22KΩ
R817	1	1	1	GD05102140	1KΩ
R818	1	1	1	GD05102140	1KΩ
					P800-SEMICONDUCTORS
⚠ Q801	1	1	1	HD20011290	Diode S3VB-20
⚠ Q802	1	1	1	HD20011290	Diode S3VB-20
⚠ Q803	1	1	1	HD20011290	Diode S3VB-20
⚠ Q804	1	1	1	HD20011290	Diode S3VB-20
⚠ Q805	1		1	HD20005010	Diode W06B
⚠ Q805		1		HD20022100	Diode 10E1
⚠ Q806	1		1	HD20005010	Diode W06B
⚠ Q806		1		HD20022100	Diode 10E1
⚠ Q807	1		1	HD20005010	Diode W06B
⚠ Q807		1		HD20022100	Diode 10E1
⚠ Q808	1		1	HD20005010	Diode W06B
⚠ Q808		1		HD20022100	Diode 10E1
⚠ Q809	1	1	1	HD20005010	Diode W06B
Q810	1	1	1	HT405712B0	Transistor 2SD571(L or K)
Q811	1	1	1	HT326342A0	Transistor 2SC2634(R or S)
Q812	1	1	1	HT403131E0	Transistor 2SD313(E)
Q813	1	1	1	HD20011050	Diode 1S1555
Q814	1	1	1	HD30027090	Zener WZ-140
Q815	1	1	1	HT206052B0	Transistor 2SB605(L or K)
Q816	1	1	1	HT107332A0	Transistor 2SA733(P or Q)
Q817	1	1	1	HD30027090	Zener WZ-140
Q818	1	1	1	HT111272A0	Transistor 2SA1127(R or S)
⚠ Q819	1		1	HD20005010	Diode W06B
⚠ Q819		1		HD20022100	Diode 10E1
					P800-MISCELLANEOUS
⚠ F802		1		FS10050080	Fuse 0.5A 250V
⚠ F802			1	FS10050800	Fuse 0.5A 250V
J831		1		YJ08000170	Jack, Fuse Holder
J831			1	YJ08000270	Jack, Fuse Holder
J832		1		YJ08000170	Jack, Fuse Holder
J832			1	YJ08000270	Jack, Fuse Holder

• (U): for U.S.A.
• (C): for Canada
• (E): for Europe

REF. DESIG.	Q'TY U	C	E	PART NO.	DESCRIPTION
					P860-SUB POWER SUPPLY CIRCUIT BOARD
P860	1	1	1	YK102H1310	P.W. Board, Sub Power Supply
	1	1	1	ZZ102H1310	P.W. Board Assembly
					P860-CAPACITORS
C864	1	1	1	EA47701030	Elect 470μF 10V
C865	1	1	1	EA10701030	Elect 100μF 10V
C866	1	1	1	EA47601030	Elect 47μF 10V
C867	1	1	1	DK18103320	Ceramic 0.01μF +80% −20%
C869	1	1	1	EA22603530	Elect 22μF 35V
C873	1	1	1	EA33702530	Elect 330μF 25V
C874	1	1	1	EA22703530	Elect 220μF 35V
C875	1	1	1	EA10505030	Elect 1μF 50V
C876	1	1	1	EA33602530	Elect 33μF 25V
C877	1	1	1	EA10601630	Elect 10μF 16V
C878	1	1	1	DK17103300	Ceramic 0.01μF ±20%
C879	1	1	1	DK17103300	Ceramic 0.01μF ±20%
					P860-RESISTORS
					(All Resistors are ±5% and ¼W)
R862	1	1	1	GD05103140	10KΩ
R864	1	1	1	GG05222120	2.2KΩ ½W
R865	1	1	1	GG05390140	39Ω
R866	1	1	1	GD05103140	10KΩ
R867	1	1	1	GD05182140	1.8KΩ
R869	1	1	1	GD05472140	4.7KΩ
R872	1	1	1	GD05104140	100KΩ
R873	1	1	1	GD05104140	100KΩ
R874	1	1	1	GD05333140	33KΩ
R875	1	1	1	GD05333140	33KΩ
R876	1	1	1	GD05333140	33KΩ
R877	1	1	1	GD05333140	33KΩ
R878	1	1	1	GD05222140	2.2KΩ
R879	1	1	1	GA05151010	150Ω 1W
					P860-SEMICONDUCTORS
Q861	1	1	1	HT309452A0	Transistor 2SC945(Q or R)
Q862	1	1	1	HT404002B0	Transistor 2SD400(E or F)
Q864	1	1	1	HT107332A0	Transistor 2SA733(P or Q)
Q865	1	1	1	HT205492A0	Transistor 2SB549(P or Q)
Q866	1	1	1	HT404002B0	Transistor 2SD400(E or F)
Q867	1	1	1	HT404002B0	Transistor 2SD400(E or F)
Q868	1	1	1	HT107202B0	Transistor 2SA720(Q or R)
Q869	1	1	1	HT107202B0	Transistor 2SA720(Q or R)
Q872	1	1	1	HD20005010	Diode W06B
Q873	1	1	1	HD30036090	Zener WZ065
Q875	1	1	1	HD30068090	Zener WZ270
Q877	1	1	1	HD30039090	Zener WZ240
Q879	1	1	1	HD30067090	Zener WZ040
Q880	1	1	1	HC10019020	IC AN6552
Q882	1	1	1	HD20005010	Diode W06B
					P900-DISPLAY UNIT CIRCUIT BOARD
P900	1	1	1	YK102H1640	P.W. Board, Display Unit
	1	1	1	ZZ102H1640	P.W. Board Assembly
					P900-RESISTORS
					(All Resistors are ±5% and ¼W)
R901	1	1	1	GD05104140	100KΩ
R902	1	1	1	GD05104140	100KΩ
R903	1	1	1	GD05104140	100KΩ
R904	1	1	1	GD05822140	8.2KΩ
R905	1	1	1	GD05473140	47KΩ
R906	1	1	1	GD05103140	10KΩ

REF. DESIG.	Q'TY U	C	E	PART NO.	DESCRIPTION
					P900-SEMICONDUCTORS
Q901	1	1	1	HT107332A0	Transistor 2SA733(P or Q)
Q902	1	1	1	HT107332A0	Transistor 2SA733(P or Q)
Q903	1	1	1	HT309452B0	Transistor 2SC945(P or Q)
Q904	1	1	1	HD20011050	Diode 1S1555
V901	1	1	1	HQ30701410	Display Unit 8-MT-01
					PB00-NOISE AMP. CIRCUIT BOARD
PB00	1	1	1	YA22180610	P.W. Board, Noise Amp
	1	1	1	ZZ21370610	P.W. Board Assembly
					PB00-CAPACITORS
CB01	1	1	1	DD11100370	Ceramic 10pF ±0.5pF
CB02	1	1	1	DF16683300	Film 0.068μF ±10%
CB03	1	1	1	DF17403300	Film 0.1μF ±20%
CB04	1	1	1	DK18104020	Ceramic 0.1μF
CB05	1	1	1	DK18403320	Ceramic 0.04μF
CB06	1	1	1	EA10601690	Elect 10μF 16V
CB07	1	1	1	EA10501690	Elect 1μF 16V
					PB00-RESISTORS
					(All Resistors are ±5% and ¼W)
RB01	1	1	1	GD05562140	5.6KΩ
RB02	1	1	1	GD05104140	100KΩ
RB03	1	1	1	GD05273140	27KΩ
RB04	1	1	1	GD05102140	1KΩ
RB05	1	1	1	GD05104140	100KΩ
RB06	1	1	1	GD05333140	33KΩ
RB08	1	1	1	GG05101140	100Ω
RB09	1	1	1	GD05101140	100Ω
RB10	1	1	1	GD05104140	100KΩ
RB11	1	1	1	GD05103140	10KΩ
RB12	1	1	1	GD05472140	4.7KΩ
					PB00-SEMICONDUCTORS
QB01	1	1	1	HT309452B0	Transistor 2SC945(P or Q)
QB02	1	1	1	HT309452B0	Transistor 2SC945(P or Q)
QB03	1	1	1	HD10001050	Diode 1N60
QB04	1	1	1	HD10001050	Diode 1N60
QB05	1	1	1	HT309452B0	Transistor 2SC945(P or Q)
QB06	1	1	1	HD20011050	Diode 1S1555
					PB00-COIL
LB01	1	1	1	LC21050010	Choke Coil 1mH
					PC00-PLL SYNTHESIZER CIRCUIT BOARD
PC00	1	1	1	YK102H1610	P.W. Board, PII Synthesizer
	1	1	1	ZZ102H1610	P.W. Board Assembly
					PC00-CAPACITORS
CC01	1	1	1	EA47405030	Elect 0.47μF 50V
CC02	1	1	1	EA10800630	Elect 1000μF 6.3V
CC03	1	1	1	EA10800630	Elect 1000μF 6.3V
CC05	1	1	1	DD15220300	Ceramic 22pF ±5%
CC06	1	1	1	DD15220300	Ceramic 22pF ±5%
CC07	1	1	1	DF17683300	Film 0.068μF ±20%
CC08	1	1	1	EQ22505010	Elect 2.2μF 50V
CC09	1	1	1	EA47603530	Elect 47μF 35V
CC11	1	1	1	DK18103310	Ceramic 0.01μF +80% −20%
CC12	1	1	1	EV33600660	Elect 33μF 6.3V

• (U): for U.S.A.
• (C): for Canada
• (E): for Europe

REF. DESIG.	Q'TY U	C	E	PART NO.	DESCRIPTION
CC13	1	1	1	DD15121360	Ceramic 120pF ±5%
CC14	1	1	1	DD15750360	Ceramic 75pF ±5%
CC15	1	1	1	DK18103310	Ceramic 0.01μF +80% −20%
CC16	1	1	1	EA10602530	Elect 10μF 25V
CC17	1	1	1	DK16221300	Ceramic 220pF ±10%
CC18	1	1	1	DK16221300	Ceramic 220pF ±10%
CC19	1	1	1	DK18103310	Ceramic 0.01μF +80% −20%
CC20	1	1	1	EV33600660	Elect 33μF 6.3V
CC21	1	1	1	DK17103300	Ceramic 0.01μF ±20%
CC22	1	1	1	EA10602530	Elect 10μF 25V
CC23	1	1	1	EA22700630	Elect 220μF 6.3V
CC24	1	1	1	EA22700630	Elect 220μF 6.3V
					PC00-RESISTORS
					(All Resistors are ±5% and ¼W)
RC01	1	1	1	GD05222140	2.2KΩ
RC02	1	1	1	GD05222140	2.2KΩ
RC03	1	1	1	GD05222140	2.2KΩ
RC04	1	1	1	GD05222140	2.2KΩ
RC05	1	1	1	GD05222140	2.2KΩ
RC06	1	1	1	GD05222140	2.2KΩ
RC08	1	1	1	GD05104140	100KΩ
RC09	1	1	1	GD05104140	100KΩ
RC10	1	1	1	GD05104140	100KΩ
RC11	1	1	1	GD05104140	100KΩ
RC12	1	1	1	GD05104140	100KΩ
RC13	1	1	1	GD05104140	100KΩ
RC16	1	1	1	GD05104140	100KΩ
RC17	1	1	1	GD05104140	100KΩ
RC18	1	1	1	GD05104140	100KΩ
RC19	1	1	1	GD05104140	100KΩ
RC20	1	1	1	GD05104140	100KΩ
RC21	1	1	1	GD05104140	100KΩ
RC22	1	1	1	GD05104140	100KΩ
RC23	1	1	1	GD05104140	100KΩ
RC24	1	1	1	GD05104140	100KΩ
RC25	1	1	1	GD05473140	47KΩ
RC26	1	1	1	GD05223140	22KΩ
RC28	1	1	1	GD05223140	22KΩ
RC29	1	1	1	GD05473140	47KΩ
RC30	1	1	1	GD05473140	47KΩ
RC31	1	1	1	GD05473140	47KΩ
RC32	1	1	1	GD05473140	47KΩ
RC33	1	1	1	GD05473140	47KΩ
RC34	1	1	1	GD05473140	47KΩ
RC35	1	1	1	GD05473140	47KΩ
RC36	1	1	1	GD05473140	47KΩ
RC37	1	1	1	GD05473140	47KΩ
RC38	1	1	1	GD05473140	47KΩ
RC39	1	1	1	GD05103140	10KΩ
RC40	1	1	1	GD05103140	10KΩ
RC41	1	1	1	GD05103140	10KΩ
RC42	1	1	1	GD05103140	10KΩ
RC43	1	1	1	GD05103140	10KΩ
RC44	1	1	1	GD05103140	10KΩ
RC45	1	1	1	GD05103140	10KΩ
RC46	1	1	1	GD05103140	10KΩ
RC47	1	1	1	GD05103140	10KΩ
RC48	1	1	1	GD05223140	22KΩ
RC49	1	1	1	GD05223140	22KΩ
RC50	1	1	1	GD05332140	3.3KΩ
RC51	1	1	1	GD05223140	22KΩ
RC52	1	1	1	GD05332140	3.3KΩ
RC53	1	1	1	GD05223140	22KΩ
RC54	1	1	1	GD05223140	22KΩ

REF. DESIG.	Q'TY U	C	E	PART NO.	DESCRIPTION
RC55	1	1	1	GD05472140	4.7KΩ
RC56	1	1	1	GD05472140	4.7KΩ
RC57	1	1	1	GD05472140	4.7KΩ
RC58	1	1	1	GD05472140	4.7KΩ
RC59	1	1	1	GD05472140	4.7KΩ
RC60	1	1	1	GD05473140	47KΩ
RC61	1	1	1	GD05393140	39KΩ
RC62	1	1	1	GD05393140	39KΩ
RC63	1	1	1	GD05393140	39KΩ
RC64	1	1	1	GD05393140	39KΩ
RC65	1	1	1	GD05221140	220Ω
RC66	1	1	1	GD05562140	5.6KΩ
RC67	1	1	1	GD05222140	2.2KΩ
RC68	1	1	1	GD05101140	100Ω
RC70	1	1	1	GD05102140	1KΩ
RC71	1	1	1	GD05102140	1KΩ
RC73	1	1	1	GD05122140	1.2KΩ
RC74	1	1	1	GD05103140	10KΩ
RC75	1	1	1	GD05102140	1KΩ
RC78	1	1	1	GD05104140	100KΩ
RC79	1	1	1	GG05100140	10Ω
RC80	1	1	1	GD05182140	1.8KΩ
RC82	1	1	1	GD05102140	1KΩ
RC83	1	1	1	GD05101140	100Ω
					PC00-SEMICONDUCTORS
QC01	1	1	1	HC10016020	IC MN1400SJ
QC02	1	1	1	HC10018020	IC MN1203
QC03	1	1	1	HC10017020	IC MN6142
QC04	1	1	1	HC10032060	IC μPB551C
QC05	1	1	1	HC10048050	IC TC5066BP
QC06	1	1	1	HT107332B0	Transistor 2SA733(Ⓠ or Ⓡ)
QC07	1	1	1	HT107332B0	Transistor 2SA733(Ⓠ or Ⓡ)
QC08	1	1	1	HT107332B0	Transistor 2SA733(Ⓠ or Ⓡ)
QC09	1	1	1	HT107332B0	Transistor 2SA733(Ⓠ or Ⓡ)
QC10	1	1	1	HT107332B0	Transistor 2SA733(Ⓠ or Ⓡ)
QC11	1	1	1	HT107332B0	Transistor 2SA733(Ⓠ or Ⓡ)
QC12	1	1	1	HD20011050	Diode 1S1555
QC14	1	1	1	HT107332B0	Transistor 2SA733(Ⓠ or Ⓡ)
QC15	1	1	1	HT107332B0	Transistor 2SA733(Ⓠ or Ⓡ)
QC23	1	1	1	HD20011050	Diode 1S1555
QC24			1	HD20011050	Diode 1S1555
QC25	1	1	1	HD20011050	Diode 1S1555
QC26	1	1	1	HD20011050	Diode 1S1555
QC27	1	1	1	HD20011050	Diode 1S1555
QC28	1	1	1	HD20011050	Diode 1S1555
QC29	1	1	1	HD20011050	Diode 1S1555
QC30	1	1	1	HD20011050	Diode 1S1555
QC31	1	1	1	HD20011050	Diode 1S1555
QC32	1	1	1	HD20011050	Diode 1S1555
QC33	1	1	1	HD20011050	Diode 1S1555
QC34	1	1	1	HD20011050	Diode 1S1555
QC35	1	1	1	HD20011050	Diode 1S1555
QC36	1	1	1	HD20011050	Diode 1S1555
QC37	1	1	1	HD20011050	Diode 1S1555
QC38	1	1	1	HT309452A0	Transistor 2SC945(Ⓠ or Ⓡ)
QC39	1	1	1	HT309452A0	Transistor 2SC945(Ⓠ or Ⓡ)
QC41	1	1	1	HT107332B0	Transistor 2SA733(Ⓠ or Ⓡ)
QC42	1	1	1	HT309452A0	Transistor 2SC945(Ⓠ or Ⓡ)
QC43	1	1	1	HT309452A0	Transistor 2SC945(Ⓠ or Ⓡ)
QC44	1	1	1	HT309452A0	Transistor 2SC945(Ⓠ or Ⓡ)
QC45	1	1	1	HT309452A0	Transistor 2SC945(Ⓠ or Ⓡ)
QC46	1	1	1	HT309452A0	Transistor 2SC945(Ⓠ or Ⓡ)
QC47	1	1	1	HT309452A0	Transistor 2SC945(Ⓠ or Ⓡ)
QC48	1	1	1	HT309452A0	Transistor 2SC945(Ⓠ or Ⓡ)
QC49	1	1	1	HT309452A0	Transistor 2SC945(Ⓠ or Ⓡ)

• (U): for U.S.A.
• (C): for Canada
• (E): for Europe

REF. DESIG.	Q'TY U	C	E	PART NO.	DESCRIPTION
QC50	1	1	1	HT309452A0	Transistor 2SC945(Q or R)
QC51	1	1	1	HT309452A0	Transistor 2SC945(Q or R)
QC52	1	1	1	HD20011050	Diode 1S1555
QC53	1	1	1	HD20011050	Diode 1S1555
QC54	1	1	1	HF200301C0	F.E.T. 2SK30(Y)
QC55	1	1	1	HT309452A0	Transistor 2SC945(Q or R)
QC56	1	1	1	HT309452A0	Transistor 2SC945(Q or R)
QC57	1	1	1	HD20011050	Diode 1S1555
					PC00-MISCELLANEOUS
LC01	1	1	1	LC11030020	Choke Coil 10μH
XC01	1	1	1	XA108001L0	Crystal 11.52MHz
					PE00-TONE AMP. CIRCUIT BOARD
PE00	1	1	1	YK21161850	P.W. Board, Tone Amp.
	1	1	1	ZZ21161850	P.W. Board Assembly
					PE00-CAPACITORS
CE01	1	1	1	EE10505040	Elect 1μF 50V
CE02	1	1	1	EE10505040	Elect 1μF 50V
CE03	1	1	1	DK16101300	Ceramic 100pF ±10%
CE04	1	1	1	DK16101300	Ceramic 100pF ±10%
CE05	1	1	1	EE22505040	Elect 2.2μF 50V
CE06	1	1	1	EE22505040	Elect 2.2μF 50V
CE07	1	1	1	DK16101300	Ceramic 100pF ±10%
CE08	1	1	1	DK16101300	Ceramic 100pF ±10%
CE09	1	1	1	DF16222300	Film 2200pF ±10%
CE10	1	1	1	DF16222300	Film 2200pF ±10%
CE11	1	1	1	DF16562300	Film 5600pF ±10%
CE12	1	1	1	DF16562300	Film 5600pF ±10%
CE15	1	1	1	DF16183300	Film 0.018μF ±10%
CE16	1	1	1	DF16183300	Film 0.018μF ±10%
CE17	1	1	1	DF16183300	Film 0.018μF ±10%
CE18	1	1	1	DF16183300	Film 0.018μF ±10%
CE19	1	1	1	DF16822300	Film 8200pF ±10%
CE20	1	1	1	DF16822300	Film 8200pF ±10%
CE21	1	1	1	DD15560370	Ceramic 56pF ±5%
CE22	1	1	1	DD15560370	Ceramic 56pF ±5%
CE23	1	1	1	EA33505030	Elect 3.3μF 50V
CE24	1	1	1	EA33505030	Elect 3.3μF 50V
					PE00-RESISTORS (All Resistors are ±5% and ¼W)
RE01	1	1	1	GD05683140	68KΩ
RE02	1	1	1	GD05683140	68KΩ
RE03	1	1	1	GD05821140	820Ω
RE04	1	1	1	GD05821140	820Ω
RE05	1	1	1	GD05392140	3.9KΩ
RE06	1	1	1	GD05392140	3.9KΩ
RE07	1	1	1	GD05682140	6.8KΩ
RE08	1	1	1	GD05682140	6.8KΩ
RE09	1	1	1	GD05682140	6.8KΩ
RE10	1	1	1	GD05682140	6.8KΩ
RE11	1	1	1	GD05562140	5.6KΩ
RE12	1	1	1	GD05562140	5.6KΩ
RE13	1	1	1	GD05562140	5.6KΩ
RE14	1	1	1	GD05562140	5.6KΩ
RE15	1	1	1	GD05223140	22KΩ
RE16	1	1	1	GD05223140	22KΩ
RE17	1	1	1	GD05223140	22KΩ
RE18	1	1	1	GD05223140	22KΩ
RE19	1	1	1	GD05223140	22KΩ
RE20	1	1	1	GD05223140	22KΩ

REF. DESIG.	Q'TY U	C	E	PART NO.	DESCRIPTION
RE21	1	1	1	GD05103140	10KΩ
RE22	1	1	1	GD05103140	10KΩ
RE23	1	1	1	GD05470140	47Ω
RE24	1	1	1	GD05470140	47Ω
RE25	1	1	1	RM01040150	100KΩ(B) Variable, Treble
RE26	1	1	1	RM01040150	100KΩ(B) Variable, Mid
RE27	1	1	1	RM01040150	100KΩ(B) Variable, Bass
					PE00-IC
QE01	1	1	1	HC10003090	IC NJM4558D
QE02	1	1	1	HC10003090	IC NJM4558D
					PG00-VOLUME/BALANCE CIRCUIT BOARD
PG00	1	1	1	YK102H1430	P.W. Board, Volume/Balance
	1	1	1	ZZ102H1430	P.W. Board Assembly
					PG00-RESISTORS
RG01	1	1	1	RM01040320	100KΩ(B) x 2 Variable, Vol.
RG02	1	1	1	RK02040080	200KΩ(W) Variable, Balance
					PK00-POWER LEVEL LED CIRCUIT BOARD
PK00	1	1	1	YK102H1320	P.W. Board, Power Level LED
	1	1	1	ZZ102H1320	P.W. Board Assembly
					PK00-CAPACITORS
CK01	1	1	1	EA10602530	Elect 10μF 25V
CK02	1	1	1	EA10602530	Elect 10μF 25V
CK03	1	1	1	EA10602530	Elect 10μF 25V
CK04	1	1	1	EA10602530	Elect 10μF 25V
CK05	1	1	1	EA22505030	Elect 2.2μF 50V
CK06	1	1	1	EA22505030	Elect 2.2μF 50V
CK07	1	1	1	EA10702530	Elect 100μF 25V
					PK00-RESISTORS (All Resistors are ±5% and ¼W)
RK01	1	1	1	RA02030010	20KΩ Trimming
RK02	1	1	1	RA02030010	20KΩ Trimming
RK03	1	1	1	GD05152140	1.5KΩ
RK04	1	1	1	GD05152140	1.5KΩ
RK05	1	1	1	GD05152140	1.5KΩ
RK06	1	1	1	GD05152140	1.5KΩ
RK07	1	1	1	GD05152140	1.5KΩ
RK08	1	1	1	GD05152140	1.5KΩ
RK09	1	1	1	GD05152140	1.5KΩ
RK10	1	1	1	GD05152140	1.5KΩ
RK11	1	1	1	GD05152140	1.5KΩ
RK12	1	1	1	GD05152140	1.5KΩ
RK13	1	1	1	GD05152140	1.5KΩ
RK14	1	1	1	GD05152140	1.5KΩ
RK15	1	1	1	GD05152140	1.5KΩ
RK16	1	1	1	GD05152140	1.5KΩ
RK17	1	1	1	GD05152140	1.5KΩ
RK18	1	1	1	GD05152140	1.5KΩ
RK19	1	1	1	GD05152140	1.5KΩ
RK20	1	1	1	GD05152140	1.5KΩ
RK21	1	1	1	GD05152140	1.5KΩ
RK22	1	1	1	GD05152140	1.5KΩ
RK23	1	1	1	GD05152140	1.5KΩ
RK24	1	1	1	GD05152140	1.5KΩ
RK25	1	1	1	GD05152140	1.5KΩ
RK26	1	1	1	GD05152140	1.5KΩ
RK27	1	1	1	GD05103140	10KΩ
RK28	1	1	1	GD05103140	10KΩ
RK29	1	1	1	GD05103140	10KΩ
RK30	1	1	1	GD05103140	10KΩ

- (U): for U.S.A.
- (C): for Canada
- (E): for Europe

REF. DESIG.	Q'TY U	C	E	PART NO.	DESCRIPTION
RK31	1	1	1	GD05123140	12KΩ
RK32	1	1	1	GD05123140	12KΩ
RK33	1	1	1	GD05182140	1.8KΩ
RK34	1	1	1	GD05182140	1.8KΩ
RK35	1	1	1	GD05121140	120Ω
RK36	1	1	1	GD05121140	120Ω
RK37	1	1	1	GD05272140	2.7KΩ
RK38	1	1	1	GD05272140	2.7KΩ
RK39	1	1	1	GD05274140	270KΩ
RK40	1	1	1	GD05274140	270KΩ
RK41	1	1	1	GD05682140	6.8KΩ
RK42	1	1	1	GD05682140	6.8KΩ
RK45	1	1	1	GD05822140	8.2KΩ
RK46	1	1	1	GD05822140	8.2KΩ
RK47	1	1	1	GD05562140	5.6KΩ
RK48	1	1	1	GD05562140	5.6KΩ
RK49	1	1	1	GD05821140	820Ω
RK50	1	1	1	GD05821140	820Ω
RK51	1	1	1	GD05103140	10KΩ
RK52	1	1	1	GD05103140	10KΩ
RK53	1	1	1	GD05153140	15KΩ
RK54	1	1	1	GD05392140	3.9KΩ
RK55	1	1	1	GG05271140	270Ω
					PK00-SEMICONDUCTORS
QK03	1	1	1	HC10002320	IC IR2418A
QK04	1	1	1	HC10002320	IC IR2418A
QK05	1	1	1	HH00008030	Thermistor SDT-1000
QK06	1	1	1	HH00008030	Thermistor SDT-1000
QK07	1	1	1	HT111271S0	Transistor 2SA1127(S)
QK08	1	1	1	HT111271S0	Transistor 2SA1127(S)
QK09	1	1	1	HT326341S0	Transistor 2SC2634(S)
QK10	1	1	1	HT326341S0	Transistor 2SC2634(S)
QK11	1	1	1	HD20011050	Diode 1S1555
QK12	1	1	1	HD20011050	Diode 1S1555
QK13	1	1	1	HD20011050	Diode 1S1555
QK14	1	1	1	HD20011050	Diode 1S1555
QK15	1	1	1	HD30059090	Zener XZ-185, 18.5V
					PK00-CAPACITORS
CK10	1	1	1	EV10600360	Elect 10μF 3V
CK11	1	1	1	EV47501660	Elect 4.7μF 16V
CK12	1	1	1	EV47501660	Elect 4.7μF 16V
					PK00-RESISTORS **(All Resistors are ±5% and ¼W)**
RK59	1	1	1	GD05472140	4.7KΩ
RK60	1	1	1	GD05682140	6.8KΩ
RK61	1	1	1	GD05103140	10KΩ
RK62	1	1	1	GD05390140	39Ω
RK63	1	1	1	GG05270140	27Ω
RK64	1	1	1	GD05153140	15KΩ
RK65	1	1	1	GD05333140	33KΩ
RK66	1	1	1	GD05102140	1KΩ
RK67	1	1	1	GD05102140	1KΩ
RK68	1	1	1	GD05102140	1KΩ
RK69	1	1	1	GD05102140	1KΩ
RK70	1	1	1	GD05102140	1KΩ

REF. DESIG.	Q'TY U	C	E	PART NO.	DESCRIPTION
					PK00-SEMICONDUCTORS
QK01	1	1	1	HI11202320	L.E.D. GL-112R4
QK02	1	1	1	HI11202320	L.E.D. GL-112R4
QK20	1	1	1	HC10040030	IC LB1416
QK21	1	1	1	HI10008030	L.E.D. SLP141B
QK22	1	1	1	HI10008030	L.E.D. SLP141B
QK23	1	1	1	HI10008030	L.E.D. SLP141B
QK24	1	1	1	HI10008030	L.E.D. SLP141B
QK25	1	1	1	HI10008030	L.E.D. SLP141B
					PN00-VOLTAGE AMP. CIRCUIT BOARD
PN00	1	1	1	YK21161820	P.W. Board, Voltage Amp.
	1	1	1	ZZ21161820	P.W. Board Assembly
					PN00-CAPACITORS
CN01	1	1	1	EA47505030	Elect 4.7μF 50V
CN02	1	1	1	EA47505030	Elect 4.7μF 50V
CN03	1	1	1	EA10505030	Elect 1μF 50V
CN04	1	1	1	EA10505030	Elect 1μF 50V
CN05	1	1	1	DD10020300	Ceramic 2pF ±0.25pF
CN06	1	1	1	DD10020300	Ceramic 2pF ±0.25pF
CN07	1	1	1	DD15270510	Ceramic 27pF ±5%
CN08	1	1	1	DD15270510	Ceramic 27pF ±5%
CN09	1	1	1	DF16332350	Film 3300pF ±10%
CN10	1	1	1	DF16332350	Film 3300pF ±10%
CN11	1	1	1	DF16332350	Film 3300pF ±10%
CN12	1	1	1	DF16332350	Film 3300pF ±10%
CN13	1	1	1	EA10706310	Elect 100μF 63V
CN14	1	1	1	EA10706310	Elect 100μF 63V
CN15	1	1	1	DK16221300	Ceramic 220pF ±10%
CN16	1	1	1	DK16221300	Ceramic 220pF ±10%
CN17	1	1	1	DD15200310	Ceramic 20pF ±5%
CN18	1	1	1	DD15200310	Ceramic 20pF ±5%
					PN00-RESISTORS **(All Resistors are ±5% and ¼W)**
RN01	1	1	1	GD05474140	470KΩ
RN02	1	1	1	GD05474140	470KΩ
RN03	1	1	1	GD05221140	220Ω
RN04	1	1	1	GD05221140	220Ω
RN05	1	1	1	GD05333140	33KΩ
RN06	1	1	1	GD05333140	33KΩ
RN07	1	1	1	GD05273140	27KΩ
RN08	1	1	1	GD05333140	33KΩ
RN09	1	1	1	RA01030460	10KΩ Trimming
RN10	1	1	1	RA01030460	10KΩ Trimming
RN11	1	1	1	GD05222140	2.2KΩ
RN12	1	1	1	GD05222140	2.2KΩ
RN13	1	1	1	GD05683140	68KΩ
RN14	1	1	1	GD05683140	68KΩ
RN15	1	1	1	GG05472140	4.7KΩ
RN16	1	1	1	GG05472140	4.7KΩ
RN17	1	1	1	GD05223140	22KΩ
RN18	1	1	1	GD05223140	22KΩ
RN19	1	1	1	GG05472140	4.7KΩ
RN20	1	1	1	GG05472140	4.7KΩ
RN21	1	1	1	GD05331140	330Ω
RN22	1	1	1	GD05331140	330Ω
RN23	1	1	1	GD05331140	330Ω
RN24	1	1	1	GD05331140	330Ω
RN25	1	1	1	GG05101140	100Ω

• (U): for U.S.A.
• (C): for Canada
• (E): for Europe

REF. DESIG.	Q'TY U	C	E	PART NO.	DESCRIPTION
RN26	1	1	1	GG05101140	100Ω
RN27	1	1	1	GG05100140	10Ω
RN28	1	1	1	GG05100140	10Ω
RN29	1	1	1	GD05153140	15KΩ
RN30	1	1	1	GD05153140	15KΩ
					PN00-SEMICONDUCTORS
QN01	1	1	1	HD20011050	Diode 1S1555
QN02	1	1	1	HD20011050	Diode 1S1555
QN03	1	1	1	HD20011050	Diode 1S1555
QN04	1	1	1	HD20011050	Diode 1S1555
QN05	1	1	1	HT309451Q0	Transistor 2SC945(Q)
QN06	1	1	1	HT309451Q0	Transistor 2SC945(Q)
QN07	1	1	1	HT107331Q0	Transistor 2SA733(Q)
QN08	1	1	1	HT107331Q0	Transistor 2SA733(Q)
QN09	1	1	1	HD20011050	Diode 1S1555
QN10	1	1	1	HD20011050	Diode 1S1555
QN11	1	1	1	HD20011050	Diode 1S1555
QN12	1	1	1	HD20011050	Diode 1S1555
QN13	1	1	1	HC10032030	IC STK-3082
					PS00-TAPE/FILTER/ LOUDNESS CIRCUIT BOARD
PS00	1	1	1	YK21161860	P.W. Board, Tape/Filter/Loudness
	1	1	1	ZZ21161820	P.W. Board Assembly
					PS00-CAPACITORS
CS01	1	1	1	DF15472300	Film 4700pF ±5%
CS02	1	1	1	DF15472300	Film 4700pF ±5%
CS03	1	1	1	DK16271300	Ceramic 270pF ±10%
CS04	1	1	1	DK16271300	Ceramic 270pF ±10%
CS05	1	1	1	EA47405030	Elect 0.47μF 50V
CS06	1	1	1	EA47405030	Elect 0.47μF 50V
CS07	1	1	1	DF16473300	Film 0.047μF ±10%
CS08	1	1	1	DF16473300	Film 0.047μF ±10%
CS09	1	1	1	DK16681300	Ceramic 680pF ±10%
CS10	1	1	1	DK16681300	Ceramic 680pF ±10%
					PS00-RESISTORS (All Resistors are ±5% and ¼W)
RS01	1	1	1	GD05564140	560KΩ
RS02	1	1	1	GD05564140	560KΩ
RS03	1	1	1	GD05104140	100KΩ
RS04	1	1	1	GD05104140	100KΩ
RS05	1	1	1	GD05392140	3.9KΩ
RS06	1	1	1	GD05392140	3.9KΩ
RS07	1	1	1	GD05473140	47KΩ
RS08	1	1	1	GD05473140	47KΩ
RS09	1	1	1	GD05682140	6.8KΩ
RS10	1	1	1	GD05682140	6.8KΩ
RS11	1	1	1	GD05681140	680Ω
RS12	1	1	1	GD05681140	680Ω
RS13	1	1	1	GD05272140	2.7KΩ
RS14	1	1	1	GD05272140	2.7KΩ
RS15	1	1	1	GD05273140	27KΩ
RS16	1	1	1	GD05273140	27KΩ
RS18	1	1	1	GD05222140	2.2KΩ
					PS00-MISCELLANEOUS
JS04	1	1	1	YP06000570	Plug (3P)
SS01	1	1	1	SP04060120	Push Switch

REF. DESIG.	Q'TY U	C	E	PART NO.	DESCRIPTION
					PS50-MULTIPATH CIRCUIT BOARD
PS50	1	1	1	YK102H1440	P.W. Board, Multipath
	1	1	1	ZZ102H1440	P.W. Board Assembly
					PS50-CAPACITORS
CS51	1	1	1	DK18223320	Ceramic 0.022μF
CS52	1	1	1	EA10602530	Elect 10μF 25V
					PS50-RESISTOR
RS51	1	1	1	RA01040110	100KΩ(B) Trimming
					PS50-SWITCH
SS51	1	1	1	SP02010550	Push Switch, Multipath
					PT00-SPEAKER SWITCH CIRCUIT BOARD
PT00	1	1	1	YK21161830	P.W. Board, Speaker Switch
	1	1	1	ZZ102H1830	P.W. Board Assembly
					PT00-RESISTORS
RT01	1	1	1	GA05331020	330Ω ±5% 2W
RT02	1	1	1	GA05331020	330Ω ±5% 2W
					PT00-SWITCH
ST01	1	1	1	SP04020270	Push Switch, Speaker
					PT50-REC. MODE SWITCH CIRCUIT BOARD
PT50	1	1	1	YF102H0010	P.W. Board, Rec. Mode Switch
	1	1	1	ZZ102H0010	P.W. Board Assembly
					PT50-CAPACITORS
CT51	1	1	1	DK18103300	Ceramic 0.01μF +80% −20%
CT52	1	1	1	EA47505030	Elect 4.7μF 50V
					PT50-MISCELLANEOUS
JT51	1	1	1	YT02040260	Terminal, Tape 1 IN/OUT
ST51	1	1	1	SS06060010	Slide Switch
S011	1	1	1	SR00050030	Rotary Switch
					PU00-TUNING KEY BOARD CIRCUIT BOARD
PU00	1	1	1	YK102H1620	P.W. Board, Tuning Key Board
	1	1	1	ZZ102H1620	P.W. Board Assembly
					PU00-SWITCHES
SU01	1	1	1	SP01010350	Push Switch, #3
SU02	1	1	1	SP01010350	Push Switch, #6
SU03	1	1	1	SP01010350	Push Switch, #2
SU04	1	1	1	SP01010350	Push Switch, #5
SU05	1	1	1	SP01010350	Push Switch, #4
SU06	1	1	1	SP01010350	Push Switch, #1
SU07	1	1	1	SP01010350	Push Switch, #7
SU08	1	1	1	SP01010350	Push Switch, Memory Write
SU09	1	1	1	SP01010350	Push Switch, Down
SU10	1	1	1	SP01010350	Push Switch, Up
					PU50-SCAN STEP CIRCUIT BOARD
PU50	1	1	1	YK102H1660	P.W. Board, Scan Step
	1	1	1	ZZ102H1660	P.W. Board Assembly
SU51	1	1	1	SS02020380	Slide Switch, Scan Step

- (U): for U.S.A.
- (C): for Canada
- (E): for Europe

REF. DESIG.	Q'TY U	Q'TY C	Q'TY E	PART NO.	DESCRIPTION
					PV00-TAPE 2 TERMINAL CIRCUIT BOARD
PV00	1	1	1	YK102H1420	P.W. Board, Tape 2 Terminal
	1	1	1	ZZ102H1420	P.W. Board Assembly
JV11	1	1	1	YT02040260	Terminal, Tape 2 IN/Out
					PV50-REMOTE CONT. CONNECTOR CIRCUIT BOARD
PV50	1	1	1	YK102H1630	P.W. Board, Remote Cont. Connector
	1	1	1	ZZ102H1630	P.W. Board Assembly
JV51	1	1	1	YP06002230	Plug (12P)
					PW00-PHONE JACK CIRCUIT BOARD
PW00	1	1	1	YK21161840	P.W. Board, Phone Jack
	1	1	1	ZZ21161840	P.W. Board Assembly
JW04	1	1	1	YJ01001340	Jack, Phone Jack

REF. DESIG.	Q'TY U	Q'TY C	Q'TY E	PART NO.	DESCRIPTION
					PY00-FUNCTION INDICATOR CIRCUIT BOARD
PY00	1	1	1	YK102H1650	P.W. Board, Function Indicator
	1	1	1	ZZ102H1650	P.W. Board Assembly
QY01	1	1	1	HI10004060	L.E.D. SR106C, Tuner
QY02	1	1	1	HI10004060	L.E.D. SR106C, Phone
QY03	1	1	1	HI10004060	L.E.D. SR106C, Aux
QY04	1	1	1	HD20011050	Diode 1S1555
QY05	1	1	1	HD20011050	Diode 1S1555
QY06	1	1	1	HD20011050	Diode 1S1555

(W01-99)	**Assembly and Wiring**
(T01-99)	**Adjustment**
(X01-00)	**Correction**

8. TECHNICAL SPECIFICATIONS

[FOR U.S.A. & CANADA]

AMPLIFIER SECTION:

RATED POWER OUTPUT, MINIMUM CONTINUOUS AVERAGE POWER
PER CHANNEL, BOTH CHANNELS DRIVEN ..... 88 W
POWER BAND ..... 20 Hz to 20 kHz
TOTAL HARMONIC DISORTION 0.05%
LOAD IMPEDANCE ..... 4 OHMS
RATED POWER OUTPUT, MINIMUM CONTINUOUS AVERAGE POWER
PER CHANNEL, BOTH CHANNELS DRIVEN ..... 70 W
POWER BAND ..... 20 Hz to 20 kHz
TOTAL HARMONIC DISTORTION 0.025%
LOAD IMPEDANCE ..... 8 OHMS

I.M. Distortion
(I.H.F. method, 60 Hz and 7 kHz mixed 4:1 at rated power output)
at 8 ohm load impedance 0.025%
at 4 ohm load impedance 0.05%
Damping Factor (at 20 Hz) 50

PREAMPLIFIER SECTION:

Phono
Input Overload at 1 kHz ..... 225 mV
Equivalent Input Noise ("A" Weighted) ..... 0.2 μV
Dynamic Range
(Dynamic Range is the ratio of input overload to equivalent input noise) ..... 127 dB
Input Sensitivity ..... 2.7 mV
Input Impedance ..... 47 k ohms
Input Capacitance ..... 100 pF
Frequency Response, RIAA 20 Hz to 20 kHz ..... ±0.2 dB
Signal-to-Noise Ratio ("A" Weighted)
(at rated output and 10 mV input) ..... 90 dB
High Level (Aux and Tape)
Input Sensitivity ..... 160 mV
Input Impedance ..... 20 k ohms
Frequency Response
(includes power amp) ..... 10 Hz to 70 kHz ± 1.0 dB
Signal-to-Noise Ratio ("A" Weighted)
(ref. to rated output and 775 mV input) ..... 98 dB
Output Levels
Tape Out (ref. 10 mV at Phono inputs) ..... 580 mV
Output Impedance
Tape Out ..... 220 ohms

FM TUNER SECTION:

Sensitivity
IHF Usable ..... 9.8 dBf (1.7 μV)
IHF 50 dB Quieting (Mono) ..... 13.2 dBf (2.5 μV)
(Stereo) ..... 36.1 dBf (35 μV)
Quieting Slope (Mono)
RF Input for 30 dB Quieting ..... 7.2 dBf (1.3 μV)
Quieting at:
20 dBf (5.5 μV) ..... 55 dB
25 dBf (10 μV) ..... 60 dB
40 dBf (55 μV) ..... 74 dB
65 dBf (1000 μV) ..... 80 dB

Quieting Slope (Stereo)
Quieting at:
30 dBf (17 μV) ..... 42 dB
40 dBf (55 μV) ..... 54 dB
50 dBf (173 μV) ..... 64 dB
65 dBf (1000 μV) ..... 72 dB
Distortion (Mono) at 65 dBf (1000 μV)
100 Hz 0.2%
1000 Hz 0.15%
6000 Hz 0.2%
Distortion (Stereo) at 65 dBf (1000 μV)
100 Hz 0.25%
1000 Hz 0.2%
6000 Hz 0.3%
Frequency Response
30 Hz to 15 kHz
Mono and Stereo ..... +0.5 dB, −1.0 dB
Capture Ratio at 65 dBf (1000 μV) ..... 1.0 dB
.lternate Channel Selectivity ..... 65 dB
Spurious Response Rejection ..... 90 dB
Image Response Rejection ..... 55 dB
I.F. Rejection (Balanced) ..... 90 dB
A.M. Suppression ..... 55 dB
Stereo Separation at 1 kHz ..... 45 dB
Subcarrier Rejection ..... 65 dB

AM TUNER SECTION:

IHF Usable Sensitivity ..... 20 μV
Signal-to-Noise Ratio ..... 50 dB
Alternate Channel Selectivity ..... 45 dB
Image Rejection ..... 45 dB
Spurious Response Rejection ..... 55 dB
I.F. Rejection ..... 40 dB

GENERAL:

Power Requirements ..... 120 VAC, 60 Hz
Power Consumption at rated output, both channels operating ..... 300 W
.dling Power (Volume Control at zero) ..... 32 W
Dimensions:
Panel Width ..... 466 mm (18-3/8")
Panel Height ..... 140 mm (5-1/2")
Depth ..... 353 mm (13-7/8")
Weight:
Unit alone ..... 10.5 kg (23.1 lbs)
Packed for Shipment ..... 12.5 kg (27.5 lbs)

[FOR EUROPE]

AUDIO SECTION

POWER OUTPUT, DIN, 4 OHM, PER CHANNEL ..... 129 W
POWER OUTPUT, FTC AMERICAN STANDARDS, 4 OHM, PER CHANNEL ..... 88 W
TOTAL HARMONIC DISTORTION AT RATED POWER OUTPUT 0.06%
I.M. DISTORTION AT RATED POWER OUTPUT
(250 Hz AND 8 kHz MIXED, AMPLITUDE RATIO 4:1) 0.06%
POWER OUTPUT, DIN, 8 OHM, PER CHANNEL ..... 91 W
POWER OUTPUT, FTC AMERICAN STANDARDS, 8 OHM, PER CHANNEL ..... 70 W
TOTAL HARMONIC DISTORTION AT RATED POWER OUTPUT 0.03%
I.M. DISTORTION AT RATED POWER OUTPUT
(250 Hz AND 8 kHz MIXED, AMPLITUDE RATIO 4:1) 0.03%
POWER BANDWIDTH ..... 10 Hz ~ 40 kHz

	(40 Hz)	(1 kHz)	(12.5 kHz)
DAMPING FACTOR 8 OHM	65	65	60

Frequency Response
Phone (RIAA) ..... ±0.5 dB
Aux (±1 dB) ..... 10 Hz ~ 40 k
Signal-to-Noise Ratio
Phono ..... 72 dB
Aux ..... 80 dB
Input Terminals
Phono: Input Impedance ..... 47 k ohms
Input Capacitance ..... 100 pF
Input Sensitivity ..... 2.7 mV
Overload Margin ..... 40 dB
Aux: Input Impedance ..... 20 k ohms
Input Sensitivity ..... 160 mV
Phono Equivalent Input Noise ..... 1.2 μV
Phono Dynamic Range (Ratio of input overload to equivalent input noise) ..... 107 dB
Channel Balance (0 to −40 dB/40 Hz ~ 16 kHz)
Phono ..... 2.0 dB
Aux ..... 1.5 dB
Interchannel Crosstalk
Phono 1 kHz ..... 35 dB
Aux 1 kHz ..... 50 dB
Tape 1 kHz ..... 50 dB
Intersource Crosstalk (Worst Point)
1 kHz ..... 50 d
Output Voltage, 1 kHz
Tape out ..... 450 mV
Output Impedance, 1 kHz
Tape Out ..... 500 ohms
Headphone Jack Load Impedance ..... 8 ohms

FM TUNER SECTION

Frequency Range ..... 87.5 ~ 108 MHz
Usable Sensitivity 40 kHz Deviation, 98 MHz (75 ohms)
Mono, S/N 26 dB ..... 0.8 μV
Stereo, S/N 46 dB ..... 21 mV
Alternate Channel Selectivity, 98 MHz ±300 kHz ..... 70 dB
Image Response Rejection, 98 MHz ..... 60 dB
IF Rejection, 98 MHz ..... 100 dB
Spurious Response Rejection, 98 MHz ..... 98 dB
AM Suppression, 98 MHz ..... 60 dB

Signal-to-Noise Ratio, 98 MHz
- Unweighted: Mono . . . . . 72 dB
- Stereo . . . . . 65 dB
- Weighted: Mono . . . . . 62 dB
- Stereo . . . . . 55 dB

Pilot Signal & Subcarrier Rejection
- 19 kHz . . . . . 65 dB
- 38 kHz . . . . . 70 dB

Total Harmonic Distortion, 98 MHz
- Mono 0.08%
- Stereo 0.15%

Frequency Response
- 30 Hz ~ 15 kHz . . . . . +0.3 dB, −1.0 dB

Separation
- Stereo . . . . . 48 dB

Channel Balance . . . . . 0.5 dB
Output Voltage, 1 kHz . . . . . 600 mV
Output Impedance, 1 kHz . . . . . 1 k ohms
Acceptable Load Impedance, 1 kHz . . . . . 47 k ohms
Antenna Terminals
- Balanced . . . . . 300 ohms
- Unbalanced . . . . . 75 ohms

AM TUNER SECTION

Frequency Range . . . . . 515 ~ 1650 kHz
Usable Sensitivity (26 dB S/N 30% Mod., 1 MHz) . . . . . 15 μV
Selectivity, 1 MHz ± 9 kHz . . . . . 46 dB
Image Rejection, 1 MHz . . . . . 50 dB
IF Rejection, 1 MHz . . . . . 45 dB
Spurious Response Rejection, 1 MHz . . . . . 60 dB
Signal-to-Noise Ratio, 1 MHz . . . . . 55 dB
Frequency Response, 1 MHz ± 3 dB . . . . . 35 Hz ~ 1.8 kHz
Total Harmonic Distortion, 1 MHz 0.5%

GENERAL

Power Requirements . . . . . 220 V AC, 50 Hz
(N version is featuring an external voltage selector for use on 110/120/240 V.
Other versions can be converted by a qualified technician to operate on 110/120/240 V.)
Power Consumption at Rated Output, Both Channels Operating . . . . . 300 W
Idling Power . . . . . 32 W
Semiconductor Complement
- Integrated Circuits 12
- Transistors 29
- Diodes 39
- Field Effect Transistors 1

Dimensions
- Panel Width . . . . . 18-3/8" (466 mm)
- Panel Height . . . . . 5-1/2" (140 mm)
- Depth . . . . . 13-7/8" (353 mm)

Weight
- Unit alone . . . . . 23.1 lbs (10.5 kg)
- Packed for shipment . . . . . 27.5 lbs (12.5 kg)

SCHEMATIC DIAGRAM

Q401 μPC1178C
Q403, Q405, Q406 Q311~Q325 1S1555
Q404, Q418 Q302~Q304 2SC945(K, P)
Q410 MV-203
Q411, Q412 IN60
Q414 KV-1225
Q415, Q417 Q102, Q104 2SC1047(C)
Q101 3SK45(B)
Q103 2SC829(C)
Q105 HA11225
Q110~Q113 1SV55
Q114 2SK19(Y)
Q301 KB4437
Q305, Q306 2SC2634(S, T)
Q307, Q308 2SA1127(S, T)
Q309 2SC945(P, Q)
Q401, Q402 HA1457W
Q701, Q702 STK-0080
Q703~Q706 W06B
Q707 1S2471
Q801~Q804 S3VB-20
Q805~Q809, Q819 W06B (U, E, TYPE)
Q810 2SD571(L, K)
Q811 2SC2634(R, S)
Q812 2SD313(E)
Q813 1S1555
Q861 2SC945(Q, R)
Q862, Q865, Q867 2SD400(E, F)
Q864 2SA733(P, Q)
Q868, Q869 2SA720(Q, R)
Q865 2SB549(P, Q)
Q872, Q882 W06Z
Q901, Q902 2SA733(P, Q)
Q708 1S1555
Q709, Q710 2SC1400(E)
Q711 2SD571(L, K)
Q805 Q809, Q819 10E1 (C, TYPE)
Q814, Q817 WZ-140
Q815 2SB605(K, K)
Q816 2SA733(P, Q)
Q818 2SA1127(R, S)
Q873 WZ065
Q875 WZ270
Q877 WZ240
Q879 WZ040
Q880 AN6552
Q801, Q802, Q805 2SC945(P, Q)
Q803, Q804 IN60

P100
PK00
P800
P900
PB00
PS50
PT50
PS00
PG00
PE00
PN00
PW00
PT00
P700
PY00
PV00

QC01 MN4005J
QC02 MN1203
QC03 MN6142
QC04 μPB551C
QC05 TC5068BP
QC06~QC11 QC14, QC15, QC41 2SA733(Q, R)
QC12, QC23~QC37 QC52, QC53, QC57 1S1555
QC38, QC39 QC42~QC51 QC55, QC56 2SC945(Q, R)
QC54 2SK30A(Y)
QC59 NZ3A2

PHONO DIRECT 1-2 FM 2-1 ST51 REC MODE
AM FM PHONO TAPE AUX SV01 SELECTOR

NOTE ON ⚠ FETY: THE PARTS M... PARTS ON THE ... HAVING THE ...

MODEL SR8000

Q306 2SA1127(S,T) | Q307,Q308 2SA1127(S,T) | Q309 2SC945(P,Q) | Q401,Q402 HA1457W | Q701,Q702 STK-0080 | Q703~Q706 W068 | Q707 1S2471 | Q801~Q804 33VB-20 | Q805~Q808,Q818 W068 (U,E, TYPE) | Q810 2SD571(L,K) | Q811 2SC2634(R,S) | Q812 2SD313(E) | Q813 1S1555 | Q861 2SC945(Q,R) | Q862,Q866,Q867 2SD400(E,F) | Q864 2SA733(P,Q) | Q868,Q869 2SA720(Q,R) | Q865 2SB549(P,Q) | Q872,Q882 W062 | Q901,Q902 2SA733(P,Q) | Q903 2SC945(P,Q) | Q904 1S1555

Q708 1S1555 | Q709,Q710 2SC1400(E) | Q711 2SD571(L,K) | Q805 (C, TYPE) | Q809,Q819 IQE1 | Q814,Q817 WZ-140 | Q815 2SB605(L,K) | Q816 2SA733(R,Q) | Q818 2SA1127(R,S) | Q873 WZ065 | Q875 WZ270 | Q877 WZ240 | Q879 WZ040 | Q880 AN6552 | Q901,Q902,Q905 2SC945(P,Q) | Q903,Q904 1N60 | Q906 1S1555

PK00 PS50 PE00 PN00 PW00 PT00 P700 P800 P900 PU50 PC00 PV50 PY00 P860

QC01 MN14005J
QC02 MN1203
QC03 MM6142
QC04 μPB551C
QC05 TC50688P
QC06~QC11 QC34,QC15,QC41 2SA733(Q,R)
QC12,QC23~QC37 QC52,QC53,QC57 1S1555
QC38,QC39 QC42~QC51 QC55,QC56
QC54 2SK30(Y)
QC58 HZ3A2

For(U,C) TYPE

For(E) TYPE

NOTE ON SAFETY: THE PARTS MARKED WITH △ ARE IMPORTANT PARTS ON THE SAFETY. PLEASE USE THE PARTS HAVING THE DESIGNATED PARTS NUMBER WITHOUT FAIL.

BOTTOM VIEW — Q101: 1: DRAIN, 2: SOURCE, 3: GATE 1, 4: GATE 2

QC54: 1: SOURCE, 2: GATE, 3: DRAIN

Q102~Q104,Q302~Q308,Q709,Q710 Q816,Q818,Q861,Q862,Q864,Q811 Q866~Q869,Q901~Q905,QA04 QA16~QA18,QC06~QC11,QC14 QC15,QC38,QC39,QC41~QC51 QC55,QC56,QK07~QK10,QN05~QN08 — 1: EMITTER, 2: COLLECTOR, 3: BASE

SIDE VIEW — Q810,Q815,Q865,Q711: 1: EMITTER, 2: COLLECTOR, 3: BASE

SIDE VIEW — QB14: 1: BASE, 2: COLLECTOR (FLANGE), 3: EMITTER

BOTTOM VIEW — Q114: 1: DRAIN, 2: SOURCE, 3: GATE

SIDE VIEW — QN13

Q701,Q702

TOP VIEW — QI05,Q301,QA01 QC02,QC03,QC05 QK03,QK04

SIDE VIEW — Q401,Q402

TOP VIEW — QK20

QB80,QE01,QE02 QC04

QC01

QE01,QE02 NJM4558D
QK01,QK02 GL-112R4
QK05,QK06 1R2448A
QK06,QN06 STD-1000
QK07,QK08 2SA1127(S)
QK09,QK10 2SC2634(S)
QK11~QK14 1S1555
QK15 XZ-185
QK20 LB1416
QK21~QK25 SLP141B
QN01~QN04 QN09~QN12 1S1555
QN02,QN06 2SC1815(G)
QN07,QN08 2SA1213(G)
QN13 STW082
QY01~QY03 SRMC
QY04~QY06 1S1555